

NASA CR-122428

# THE NIMBUS 4 DATA CATALOG

## VOLUME 5

1 NOVEMBER THROUGH 31 DECEMBER 1970  
DATA ORBITS 2776-3594

GODDARD SPACE FLIGHT CENTER  
GREENBELT, MARYLAND

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THE NIMBUS 4 DATA CATALOG

Volume 5

1 November through 31 December 1970  
Data Orbits 2776-3594

Prepared by

Allied Research Associates, Inc.  
Concord, Massachusetts

For the

Nimbus Project

June 1971

GODDARD SPACE FLIGHT CENTER  
Greenbelt, Maryland

*See also* [REDACTED]

This is the fifth volume of a series of catalogs published by the National Aeronautics and Space Administration to document data acquired from the Nimbus 4 Meteorological Satellite. This volume covers the period 1 November through 31 December 1970 with subsequent catalogs to contain documentation for succeeding periods throughout the useful lifetime of Nimbus 4.

The assembly and editing of this catalog was accomplished by the Geophysics and Aerospace Division of Allied Research Associates, Inc. (ARA), Concord, Massachusetts under contract number NAS 5-21617 with the Goddard Space Flight Center, NASA, Greenbelt, Maryland.

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## SECTION 1

### SUMMARY OF OPERATIONS

#### 1.1 Introduction

Nimbus 4 was successfully launched from the Western Test Range at Vandenberg AFB, California, into a near circular orbit (587 x 593 n. mi.) at 08hr 17m 57sec Universal Time on 8 April 1970.

This fifth volume of the Nimbus 4 data catalogs reflects complete data documentation for the period 1 November 1970 through 31 December 1970, orbits 2776 through 3594. Complete IRLS Balloon Experiment data documentation from launch through 27 March 1971 was presented in Volume 4.

The sensory data output and total operating time from launch (8 April 1970) through orbit 3594 on 31 December 1970 were as follows:

IDCS	33,950 pictures*
THIR (11.5 $\mu$ m)	5,021 hours*
THIR (6.7 $\mu$ m)	2,865 hours*
SIRS	5,741 hours
FWS	1,316 hours (total to failure, orbit 815)
SCR	5,741 hours
MUSE	5,751 hours
IRIS	5,610 hours
BUV	5,682 hours
IRLS	21,867 data frames (through orbit 4,749, 27 March 1971)

The Filter Wedge Spectrometer (FWS) experiment failed during orbit 815, 8 June 1970 and no further data have been received from the experiment.

Gridding of the pictorial data (IDCS and THIR) is generally accurate to within  $\pm 1$  degree of great circle arc ( $\pm 60$  n. miles) at the satellite subpoint. Mean satellite attitude errors have been less than 0.5 degree of reference more than 90 percent of the time.

Satellite power, command/clock, VIP and thermal subsystems continue to perform well. Data from the High Data Rate Storage Subsystem (HDRSS) B have been excellent. Sensory data recorded on HDRSS A continue to have a high level of noise which degrades data quality.

Quality of the sensory data varies from satisfactory to excellent. The following subsections 1.2 through 1.11 summarize the operational highlights of the individual experiments and call attention to known data anomalies in this catalog period.

\*Actual data archived; not total sensor operating time as reported in previous volumes.

The user is referred to the Nimbus IV User's Guide for a complete description of the experiments.

## 1.2 The Image Dissector Camera System (IDCS) Experiment

The Image Dissector Camera System performance has been satisfactory. Pictures from HDRSS B are of good quality (see Figure 1-1). HDRSS A video playbacks, with 100 Hz flutter interferences, have a somewhat reduced image quality as shown in Figure 1-1a of Volume 2. The Sensor "On" Table in Section 2 shows the IDCS data orbits produced from HDRSS A playbacks.

The resolution of the IDCS (2 to 3 n. miles near the subsatellite point) and the system transfer function which tends to favor tonal rendition near the white end of the gray scale are well suited for the IDCS intended purpose of cloud mapping as well as for ice study.

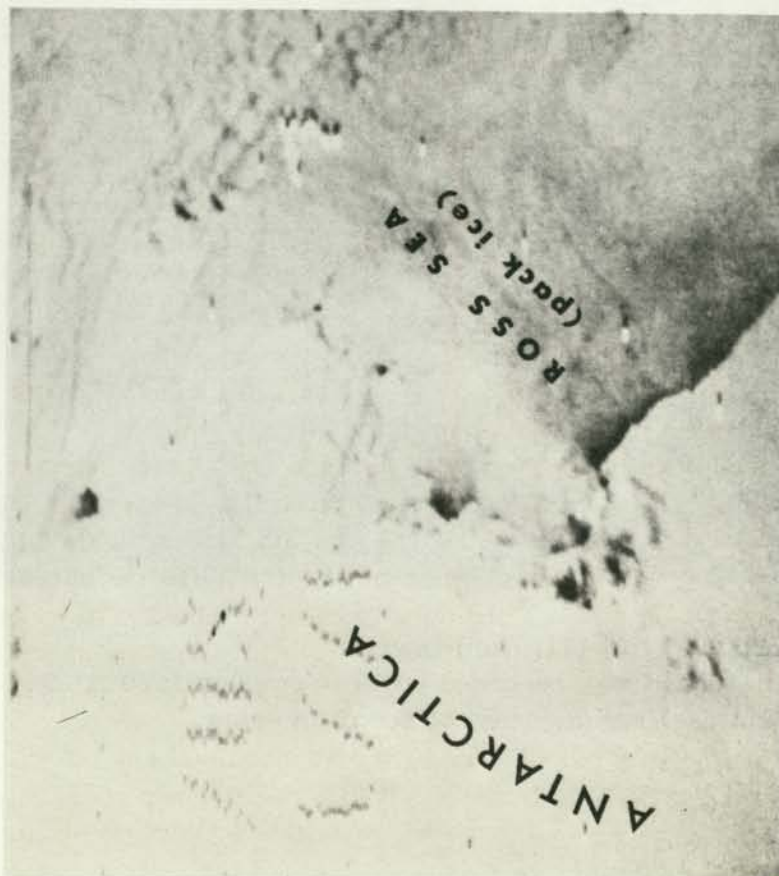
## 1.3 The Temperature-Humidity Infrared Radiometer (THIR) Experiment

The quality of the THIR data recorded on HDRSS B from the water vapor band ( $6.7\mu\text{m}$ ) and the atmospheric window band ( $11.5\mu\text{m}$ ) has been excellent. Figure 1-2 is an example of THIR ( $11.5\mu\text{m}$ ) data from this HDRSS.

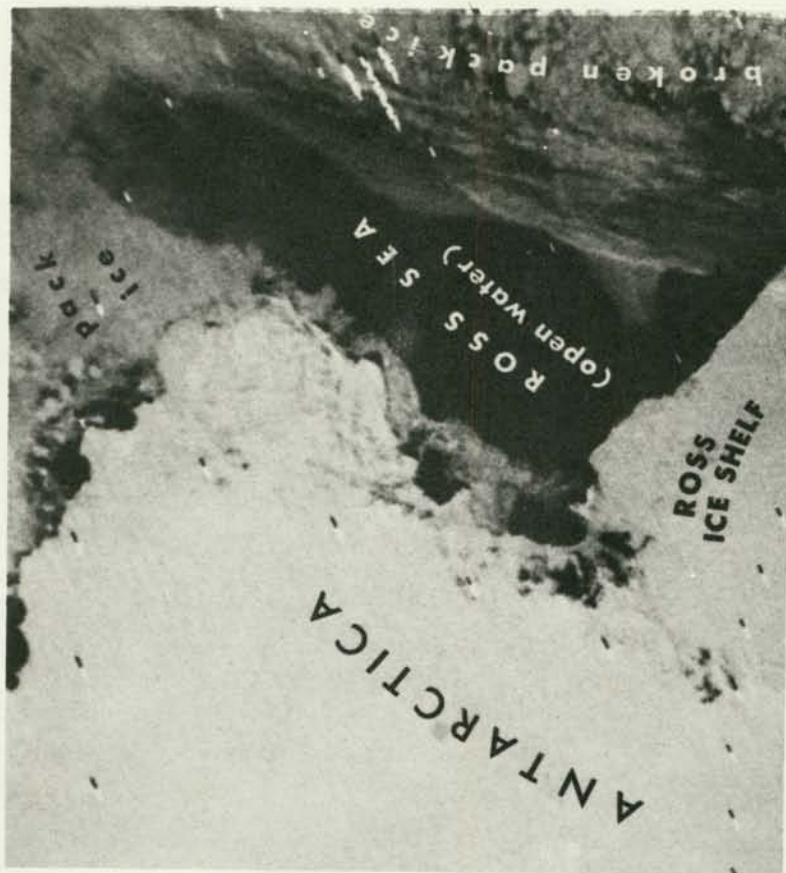
The quality of the HDRSS A THIR data, as reported in previous volumes, deteriorated after orbit 450, 11 May 1970. Figure 1-3 is a recent example of unfiltered HDRSS A video quality. Volume 3 and 4 reported that the HDRSS A THIR would not be digitized after orbit 2000 because of the large Root Mean Square (RMS) THIR temperature variations (see Figure 1-1 of Volume 3). Now however, upon request, orbits after 2000 will be digitized for users if HDRSS A THIR data are required.

HDRSS A THIR data from orbit 2000 through 3393 (16 December 1970) are at present uncorrected by any filter program and the users are cautioned to use extreme care in interpreting any formats of these data.

After 16 December most HDRSS A data were processed through "Z axis" correction equipment installed at the Data Acquisition Facilities. The function of this equipment is to eliminate frequency modulation of the THIR (and IDCS) subcarriers due to spacecraft tape recorder flutter. This is accomplished by extracting the flutter component from the two constant frequencies recorded on the VIP channel of HDRSS A and "subtracting" (reinserting the flutter component into the THIR but with a  $180^\circ$  phase inversion) this component from the THIR data to be corrected. The result of this filter process is nearly complete cancellation of the flutter component with minimum degradation of the data. A RMS temperature variation analysis of HDRSS A data after the Z axis correction filter was applied indicates that temperature errors are on the order of  $3^\circ\text{K}$ , compared to about  $7^\circ\text{K}$  before application of the Z axis correction filter. Figure 1-4 is an example of HDRSS A data after application of this filter. Table 1-1 lists all orbits after 16 December with no Z axis correction.



30 September 1970



16 December 1970

Figure 1-1 Image Dissector Camera System (IDCS)  
Pictures of the Ross Sea, Antarctica



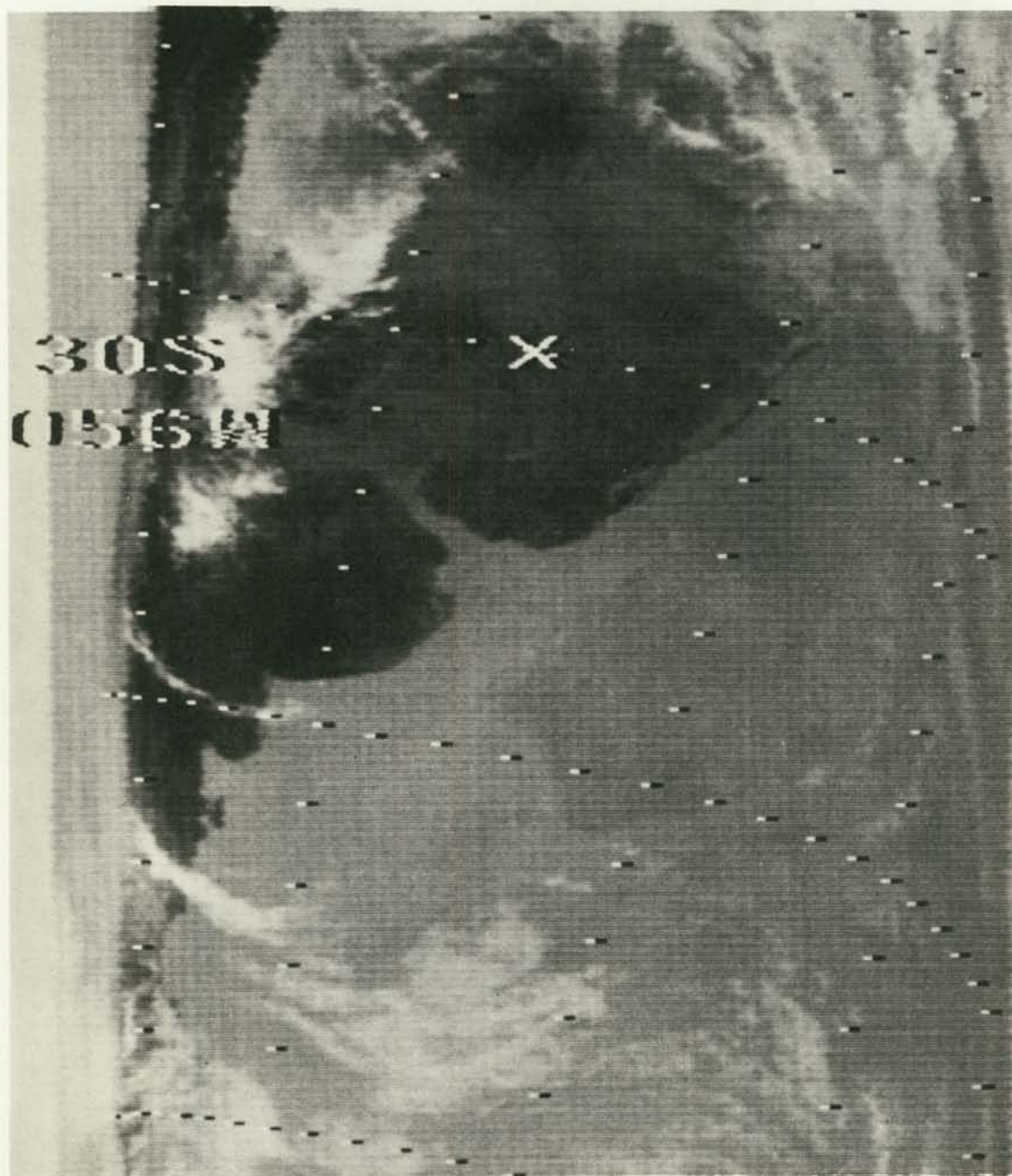


Figure 1-2 HDRSS B THIR (11.5 $\mu$ m) Image.

This THIR was recorded on 19 December 1970 off the Argentina-Uruguay coast of South America.



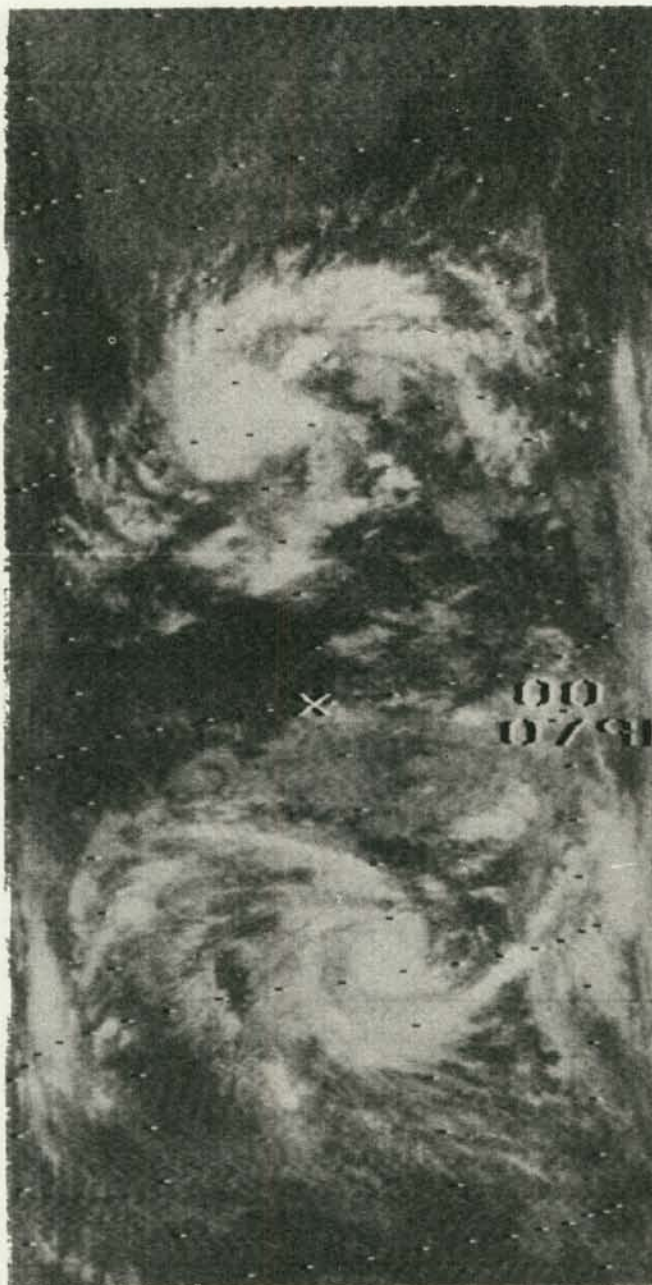


Figure 1-3 HDRSS A THIR (11.5 $\mu$ m) Image before Application of the Z Axis Correction Filter.

The two tropical cyclones in this display, recorded on 19 November 1970, are south of India with one in the northern and the other in the southern hemisphere.

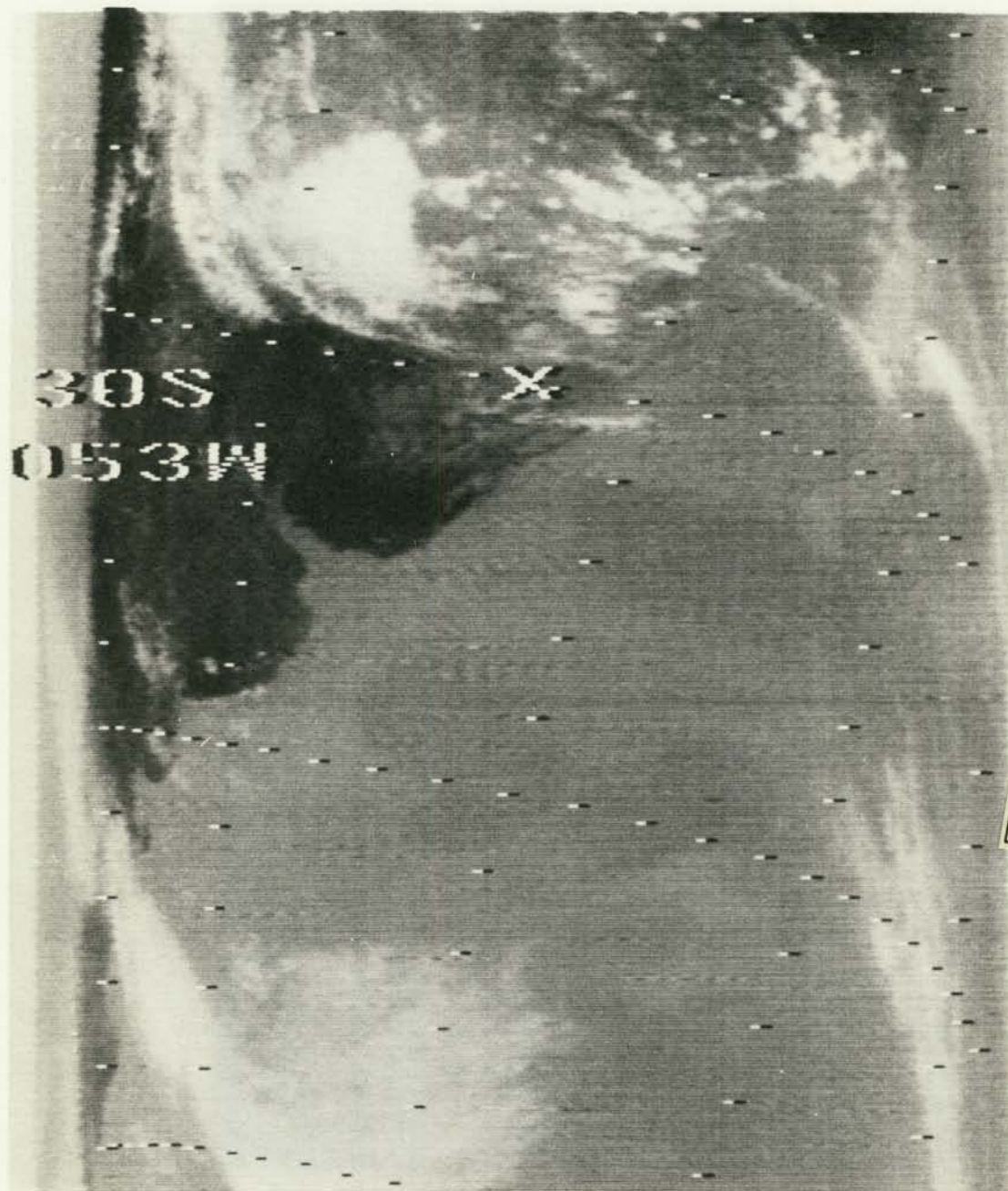


Figure 1-4 HDRSS A THIR ( $11.5\mu\text{m}$ ) Image after Application of the Z Axis Correction Filter.

This THIR, of the same area shown in Figure 1-2, was recorded on 24 December 1970.



Table 1-1

HDRSS A THIR Data After 16 December 1970  
With No Z Axis Correction Filter

NIGHTTIME ORBITS (11.5 and 6.7 $\mu$ m Channels)		DAYTIME ORBITS (11.5 $\mu$ m Channel Data Only, No 6.7 $\mu$ m Channel Data was Recorded)	
DATE	ORBIT	DATE	ORBIT
17 December	3394*	17 December	3594
17 December	3405	17 December	3405
17 December	3406	17 December	3406
18 December	3420**	18 December	3420
19 December	3433	20 December	3434
22 December	3473	23 December	3474
25 December	3501	25 December	3501
25 December	3513	25 December	3514
25 December	3514**	27 December	3528
27 December	3528**	29 December	3555
27 December	3540**	30 December	3581
28 December	3554		
30 December	3580		

\* Z Axis Correction was only applied to 6.7 $\mu$ m data

\*\* Z Axis Correction was only applied to 11.5 $\mu$ m data

#### 1.4 The Infrared Interferometer Spectrometer (IRIS) Experiment<sup>†</sup>

The IRIS performance during this catalog period was satisfactory. Some minor changes in the IMCC scan compensation for the earth port position and at the space calibration position were noted; however, these small changes did not affect the quality of the data.

<sup>†</sup> Contributed by R. Hanel and B. Schlachman of NASA/GSFC.

More significant during this period was the IRIS and RTTS turn-off/turn-on sequence which began on 28 November (orbit 3140). IRIS was off when RTTS was on each day over specified areas (see Section 1-11) because the RTTS signals cause significant interference in the IRIS data. In addition to this "lost" IRIS data, most orbits immediately following IRIS turn-on are not usable because several orbits are required for the IRIS temperature to stabilize to the plateau necessary for normal data reduction. The noise equivalent radiance (NER) is high during these orbits after turn-on but returns to its lower normal value after several orbits of continual IRIS operation.

Compensation factors have been established for the operational computer programs to compensate for (1) orbital variations in instrument temperatures and, (2) spectral dependence of the responsivity between the cold and warm on-board calibrations.

The results obtained with these new operational programs will be published in a subsequent data catalog.

#### 1.5 The Satellite Infrared Spectrometer (SIRS) Experiment\*

The performance of the SIRS-B instrument for the period November 1 through December 31, 1970, was essentially unchanged from the preceding period. Channel 1 ( $899\text{ cm}^{-1}$ ) output was constant at full scale during the entire period and appears as zero on the archival tapes. Channel 9 ( $531.5\text{ cm}^{-1}$ ) output was highly variable; the data are not usable for the period covered by this catalog. Channel 6 ( $692.0\text{ cm}^{-1}$ ) continued to exhibit the features described in earlier catalogs. Channel 12 ( $291.5\text{ cm}^{-1}$ ) continued to function normally during the period and may be used.

Minor adjustments were made to the calibration factors for computing the radiances of Channels 4 ( $709.0\text{ cm}^{-1}$ ) and 10 ( $436.5\text{ cm}^{-1}$ ). Beginning at orbit 3451, Channel 4 radiances were decreased  $0.2\text{ ergs}/(\text{cm}^2\text{ sec strdn cm}^{-1})$  and the Channel 10 radiances increased  $0.6\%$ . During the period of this catalog the noise level of Channel 10 was seen to increase from approximately  $0.5$  to  $0.75\text{ erg}/(\text{cm}^2\text{ sec strdn cm}^{-1})$ .

#### 1.6 The Monitor of Ultraviolet Solar Energy (MUSE) Experiment

The MUSE experiment has performed satisfactorily in both the manual and automatic modes during this catalog period. The functional telemetry monitors have indicated a steady and stable electrometer operation. There has been no significant indication of electrometer drift. The solar aspect monitor (ATA) cell output has degraded approximately  $9.9\%$  between launch and orbit 3594. The ultraviolet sensor outputs through orbit 3594 (Figure 1-5) continue to follow the same trends shown in previous catalog volumes.

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\* Contributed by J. Lienesch of NESS/NOAA

## 1.7 The Backscatter Ultraviolet Spectrometer (BUV) Experiment

The BUV experiment continued to perform well during this period. Data quality has been good. As reported in Volume 4, there has been a change in gain of the photomultiplier tubes with time and a decrease in reflectance of the diffuser plates. In order to evaluate the BUV data one must apply corrections as discussed in Volume 4. Some preliminary results from analysis of the BUV data are shown in Figures 1-6, 1-7 and 1-8.\*

## 1.8 The Filter Wedge Spectrometer (FWS) Experiment

The FWS chopper motor failed during orbit 815, June 8, 1970 precluding further reception of data. Continued attempts to restart the FWS motor have been unsuccessful. The committee investigating the failure of the chopper motor concluded that: "The most probable cause of failure of the FWS is felt to be due to debris in one or more of the bearings on the slow speed shafts of the reducer or filter wheel."

Before orbit 815, satisfactory data were received from the short wavelength channel, but icing of the bolometer prevented obtaining any usable data from the long wavelength channel. The committee investigating the degradation of sensory data reported that the probable cause of icing was the condensation of outgassed water vapor on the detector. Also suspected were lubricant from the gear train and adhesive used to hold superinsulation.

## 1.9 The Selective Chopper Radiometer (SCR) Experiment\*\*

The Selective Chopper Radiometer functioned well during the current catalog period. All six channels were maintained in full time operation. However, during the times and areas when RTTS was on (see Section 1.11), the RTTS signal was found to degrade the SCR data by approximately 10 ergs. Signal-to-noise ratios remained at the design level.

A series of experiments were performed between orbits 2117 and 2545 to check the temperature dependence of the balance and offset parameters of channels 1 and 2. Heater cycling of sensor housing number 1 was changed to vary the temperature between 17° and 23°C. At the same time frequent calibration sequences were initiated by stored commands. Data obtained from these orbits resulted in an improved calibration model for channels 1 and 2. Subsequent retrievals of SCR atmospheric temperature profiles derived with this new calibration model have shown better agreement with rockets in the upper atmosphere region.

Channel 6 space view level, which exhibits an orbital variation of about 0.2 TMV uncorrelated with temperature, was also investigated by placing the instrument in continuous space view for three orbits beginning with orbit 2117. A consistent model was obtained which clearly related the TMV variation effect to the time of satellite day/

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\*Figures were provided by Mr. A. Krueger of NASA/GSFC.

\*\*Contributed by Dr. E. J. Williamson, University of Oxford, Oxford, England.

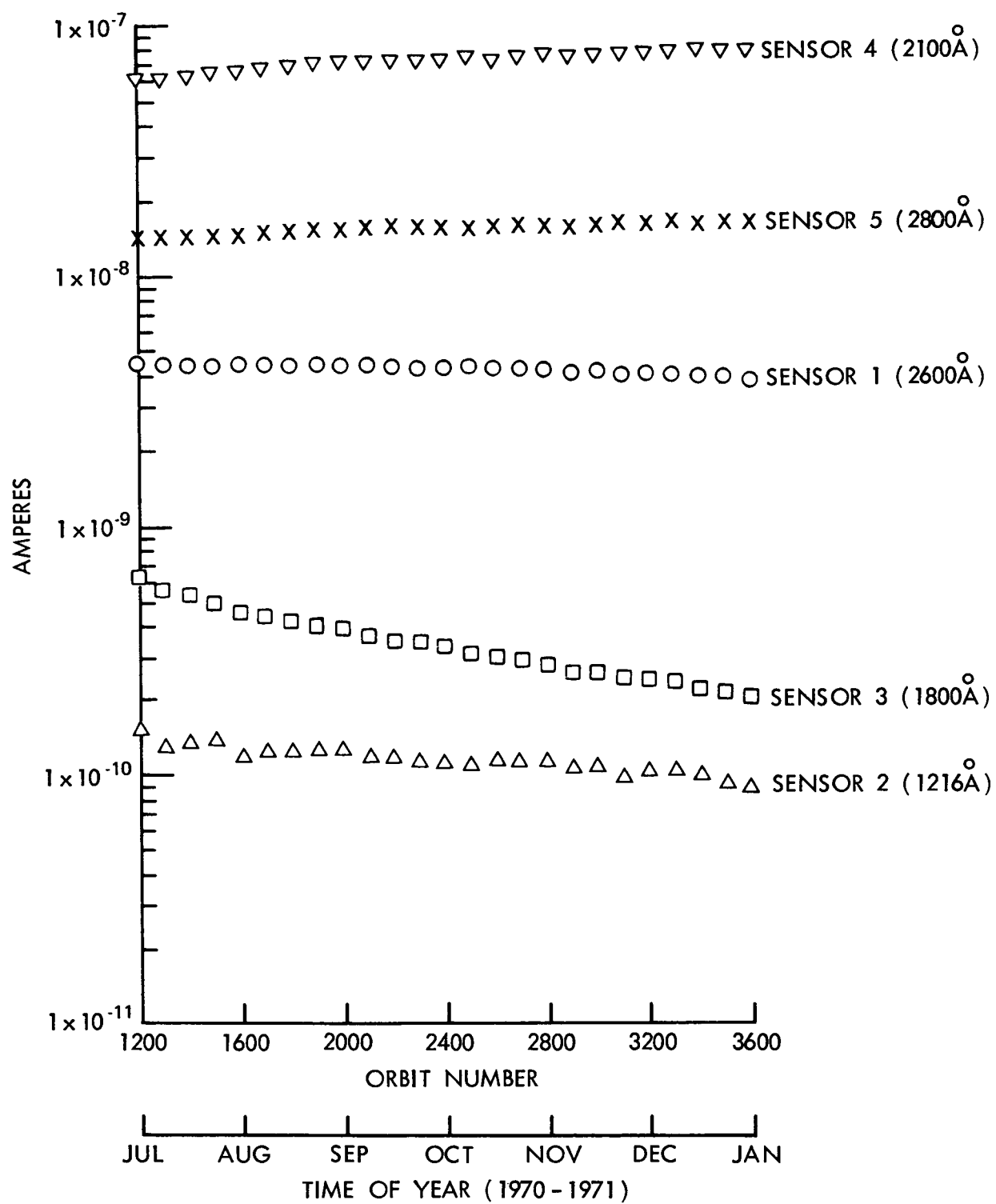


Figure 1-5 MUSE Ultraviolet Sensor Outputs at Day-Terminator

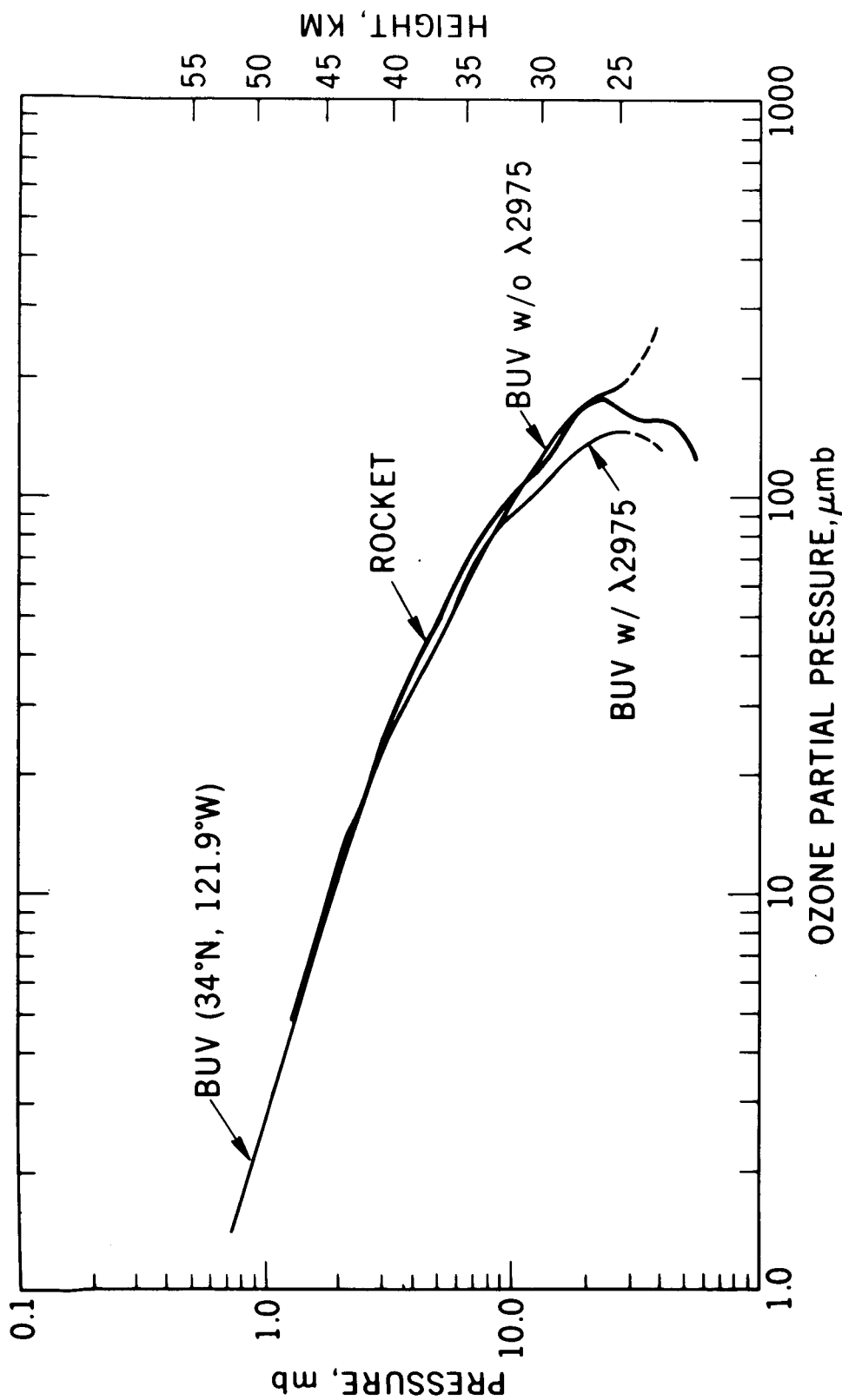


Figure 1-6 Results of the First Ozone Comparison Between BUUV Measurements and Optical Rocketsonde  
Data - 18 June 1970.

The rocket measurement of ozone used standard optical techniques. The BUUV curve shows the effect of multiple scattering from the 2975Å wavelength BUUV channel at this location in the inversion. BUUV data have been corrected for diffuser plate degradation. The rocket was launched from Point Mugu, California at 1926 GMT during satellite orbit 960.

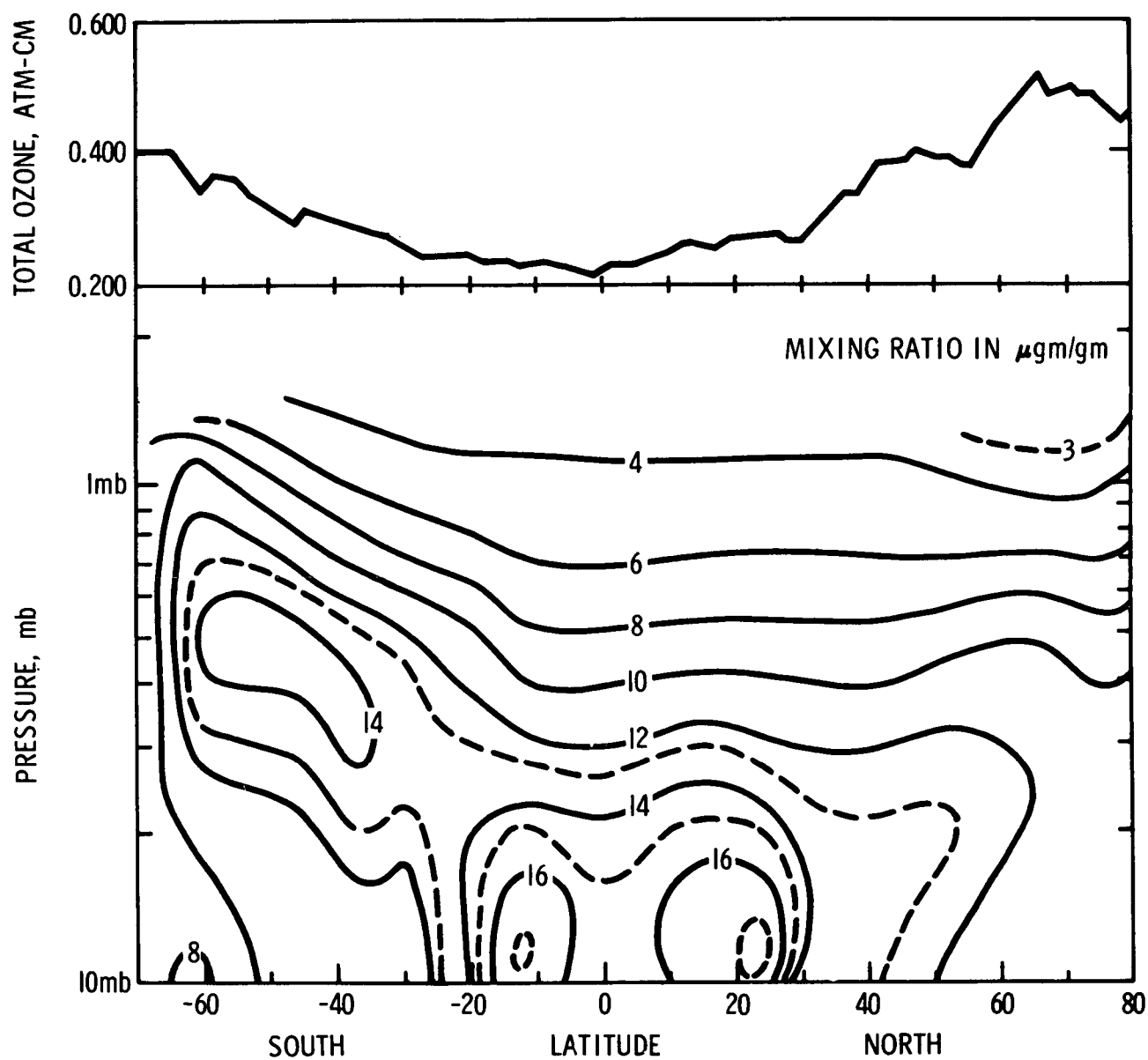


Figure 1-7 BUUV measurements of Total Ozone and High Altitude Ozone Mixing Ratio versus Latitude.

BUUV measurements of total ozone obtained during the daylight portion of orbit 454 (with an ascending node of 133°E) on 12 May 1970 were used to compute the ozone-to-air mixing ratio contours versus latitude.

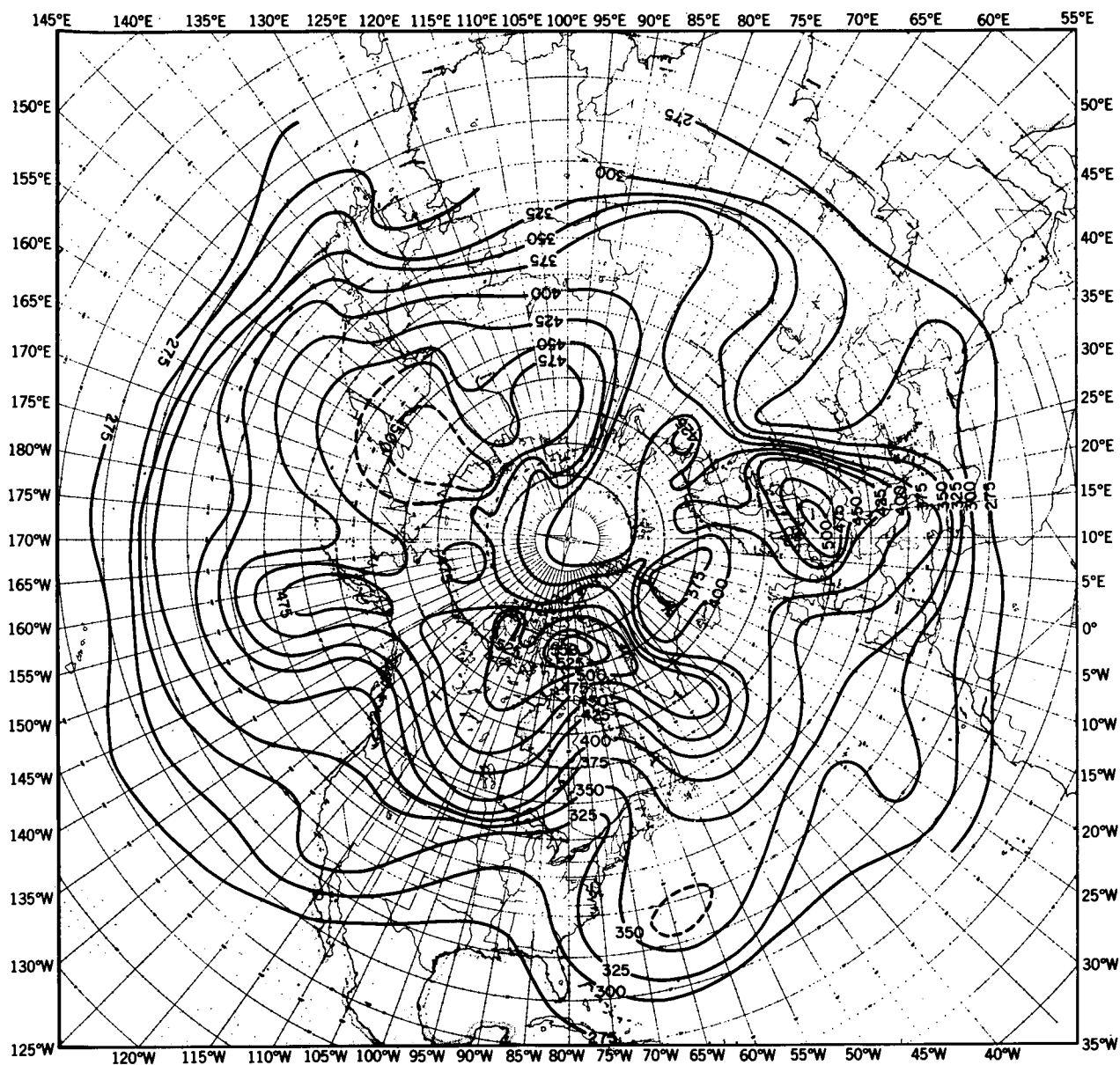


Figure 1-8 BUV Derived Values of Total Ozone Over the Northern Hemisphere for 30 April-1 May 1970 (orbits 294-312)

The total ozone was computed from the  $3125/3312\text{\AA}$  and  $3175/3398\text{\AA}$  intensity ratios. Ozone map features show close correlation with mid-troposphere pressure patterns. Ozone amounts are in milliatm-cm.

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night transition. The TMV variation has now been attributed to stray sunlight entering sensor housing number 3. A similar but smaller effect was noticed on channel 5. Data sent to Oxford now includes a day/night flag in each major frame of data. This enables the effect to be corrected during data processing.

Operational data transmission from the Nimbus Data Handling System at GSFC to Oxford has continued daily since launch. Each day's data block is processed in approximately two hours. (Formatted data tapes are being prepared for later archival at the National Space Science Data Center, Goddard Space Flight Center, Greenbelt, Maryland.) Computer drawn maps are routine outputs from each day's operations. These include radiance contours for each channel both in polar and mercator projections, meridional and zonal temperature cross sections and mean thermal winds up to 0.5 mb. A number of research projects based on the results are currently being pursued at Oxford. Among these are the study of stratospheric warmings in both hemispheres and the investigation of large scale atmospheric wave motions on a global scale.

First results from the Selective Chopper Radiometer on Nimbus 4 have been published in Nature, Vol. 228, pp. 139-143, 10 October 1970.

#### 1.10 The Interrogation, Recording and Location System (IRLS) Experiment

IRLS balloon and platform information through 27 March 1971 was presented in Section 1.10 and Section 5 of Volume 4. After 27 March 1971, one buoy and one fixed platform were still being tracked by the IRLS. IRLS subsystem performance has been good.

#### 1.11 The Real Time Transmission System (RTTS) Experiment

The Nimbus 4 RTTS is not routinely transmitted because it interferes with IRIS (see Section 1.4) and SCR. However, DRIR (RTTS-THIR  $11.5\mu\text{m}$  data) was on for about two orbits each day during the period 28 November to 17 December to assist in a survey of the Gulf Stream off the east coast of the U.S. Beginning on 14 December (orbit 3365) DRID (RTTS-IDCS) was on for three orbits each day over Antarctica to provide ice information for Antarctic resupply missions.



## SECTION 2

### ORBITAL ELEMENTS AND DAILY SENSORS "ON" TABLES

The Nimbus 4 Brouwer Mean orbital elements for November and December 1970 are listed in Table 2-1.

The Daily Sensors "On" Table (Table 2-2) lists the times during which the IRIS, IDCS and THIR subsystems were turned on and off. The other subsystems (BUV, MUSE, SCR and SIRS) were on continuously during this catalog period and, therefore, are not individually listed. Data for these subsystems are available for the time spans embraced by the THIR 11.5  $\mu\text{m}$  channel for any orbit listed.

Orbital sensor coverage in Table 2-2 is divided between daytime (D) and nighttime (N) data. The tabulation includes both the Universal Time (UT) and longitude of orbital equator crossings for the ascending nodes for daytime (D) data and descending nodes for nighttime (N) data. The tape recorder HDRSS (A or B) used to record the data is also listed. If both are used on the same orbit, the one with the longer record time is listed first. The HDRSS with the shortest record time, listed second, represents less than 25 minutes of data. The change from one HDRSS to the other is normally indicated by the short gap of "no data" in the montage displays in Section 3 and 4.

Table 2-2 together with the World Map (Figure 2-1) and the vellum Subsatellite Tracks Overlay attached to the back of this catalog can be used to determine approximate geographic sensor coverages.

A Subsatellite Tracks Overlay is correctly oriented with the World Map when the ascending or descending node line on the overlay lays over the 0 degree latitude (equator) line of the World Map. Orbital sensor coverage is determined by placing an orbit track on the World Map at the appropriate ascending node (for daytime) or descending node (for nighttime) longitude for the orbit (s) of interest.

The Subsatellite Tracks Overlay contains 14 correctly spaced tracks which end at the approximate earth day/night transitions. The tracks contain time ticks spaced 5 minutes apart, appropriately annotated at the edge of the overlay, referenced from the Equator. Minutes from equator crossings for all or part of a particular orbit are calculated by adding or subtracting from the ascending or descending node time listed for that orbit in the Daily Sensors "On" Table.

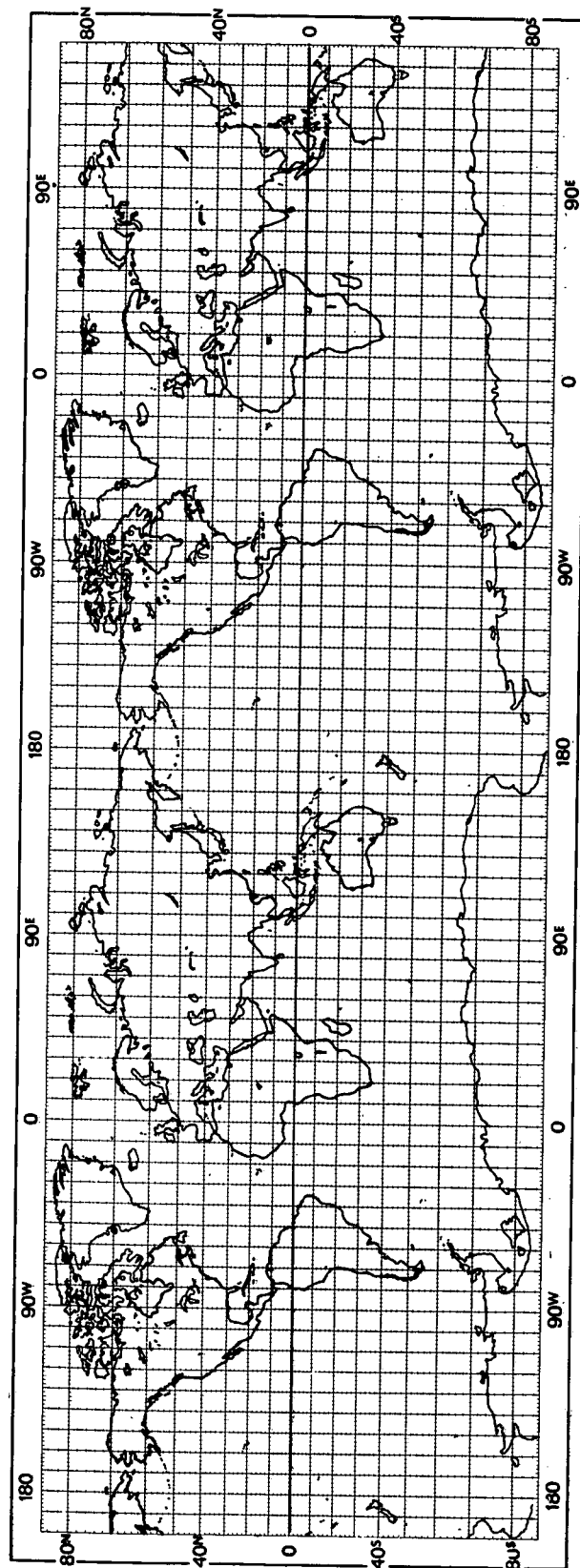


Figure 2-1. World Map

Table 2-1

**Brouwer Mean Orbital Elements For  
November and December 1970**

Epoch	Universal Time	09 Nov 1970 00 00 00	23 Nov 1970 00 00 00	09 Dec 1970 00 00 00	23 Dec 1970 00 00 00
Validity Period	Universal Time	Fr 1 Nov 70 00 00 00 To 15 Nov 70 23 50 00	Fr 16 Nov 70 00 00 00 To 30 Nov 70 23 50 00	Fr 1 Dec 70 00 00 00 To 15 Dec 70 23 50 00	Fr 16 Dec 70 00 00 00 To 31 Dec 70 23 50 00
Semi-Major Axis	Km	7471.6644	7471.6589	7471.6522	7471.6451
Eccentricity		0.0007614	0.0007937	0.0008117	0.0008203
Inclination	Degrees	99.8788	99.8821	99.8840	99.8841
Argument of Perigee	Degrees	174.3927	140.1248	103.7808	71.8360
Right Ascension of Ascending Node	Degrees	224.7884	238.5140	254.2042	267.9326
Mean Anomaly	Degrees	135.9173	169.6519	154.0668	185.6591
Height of Perigee	Km	1087.80	1087.56	1087.42	1087.34
Height of Apogee	Km	1099.18	1099.42	1099.54	1099.61
Anomalistic Period	Minutes	107.1231	107.1230	107.1229	107.1227

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 1 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2776 D	01	00	41	E 161.91	A	00 42	01 20			00 43	01 20	00 45	01 16
2776 N	01	54	15	W031.48	A	01 20	02 19	01 21	02 19	01 20	02 19		
2777 D	02	47	55	E 135.11	A/B	02 19	03 08			02 19	03 08	02 21	03 03
2777 N	03	41	29	W058.28	B	03 08	04 06	03 08	04 06	03 08	04 06		
2778 D	04	35	09	E 108.30	B	04 06	04 43			04 06	04 45	04 09	04 40
2778 N	05	28	43	W085.09	B	05 18	05 53	05 19	05 53	05 19	05 53		
2779 D	06	22	23	E 081.49	B	05 53	06 42			05 53	06 42	05 56	06 38
2779 N	07	15	57	W111.90	A/B	06 42	07 41	06 42	07 40	06 42	07 41		
2780 D	08	09	37	E 054.68	A	07 41	08 29			07 41	08 29	07 43	08 25
2780 N	09	03	11	W138.71	B/A	08 29	09 28	08 30	09 27	08 29	09 28		
2781 D	09	56	52	E 027.87	B	09 28	10 16			09 28	10 16	09 30	10 12
2781 N	10	50	25	W165.52	A/B	10 16	11 15	10 17	11 15	10 16	11 15		
2782 D	11	44	06	E 001.06	A	11 15	12 04			11 15	12 04	11 18	11 59
2782 N	12	37	39	E 167.67	B/A	12 04	13 02	12 04	13 02	12 04	12 13		
2783 D	13	31	20	W025.75	B	13 02	13 51					13 05	13 46
2783 N	14	24	53	E 140.86	A	13 51	14 50	14 01	14 49	14 01	14 50		
2784 D	15	18	34	W052.56	A	14 50	15 38			14 50	15 38	14 52	15 37
2784 N	16	12	07	E 114.05	B	15 38	16 37	15 43	16 37	15 43	16 37		
2785 D	17	05	48	W079.37	B	16 37	17 25			16 37	17 24	16 39	17 21
2785 N	17	59	22	E 087.24	A	17 25	18 24	17 26	18 24				
2786 D	18	53	02	W106.18	A	18 24	19 13			18 32	19 08	18 27	19 08
2786 N	19	46	36	E 060.43	B	19 13	20 11	19 13	20 11	19 13	20 11		
2787 D	20	40	16	W132.99	B	20 11	21 00			20 11	20 57	20 14	20 55
2787 N	21	33	50	E 033.62	A	21 00	21 59			21 00	21 59		
2788 D	22	27	30	W159.80	A	21 59	22 42			21 59	22 41		
2788 N	23	21	04	E 006.81									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 2 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2789 D	00	14	44	E 173.40	A	23 59	00 34			23 58	00 34	23 59	00 33
2789 N	01	08	18	W019.99	A	00 34	01 33	00 35	01 33	00 34	01 33		
2790 D	02	01	59	E 146.59	A/B	01 33	02 21			01 33	02 21	01 34	02 17
2790 N	02	55	32	W046.80	B	02 21	03 20	02 26	03 20	02 21	03 20		
2791 D	03	49	13	E 119.78	B	03 20	04 01			03 20	04 00	03 23	03 57
2791 N	04	42	46	W073.61	B	04 35	05 07	04 35	05 07	04 35	05 07		
2792 D	05	36	27	E 092.97	B	05 07	05 56			05 07	05 56	05 10	05 52
2792 N	06	30	00	W100.42	B	05 56	06 14	05 57	06 13	05 56	06 13		
2792 N	06	30	00	W100.42	B	06 19	06 55	06 19	06 54	06 19	06 55		
2793 D	07	23	41	E 066.16	B	06 55	07 43			06 55	07 43	06 57	07 39
2793 N	08	17	14	W127.23	A/B	07 43	08 42	07 44	08 41	07 43	08 42		
2794 D	09	10	55	E 039.35	A	08 42	09 30			08 42	09 30	08 44	09 26
2794 N	10	04	28	W154.04	B/A	09 30	10 29	09 31	10 29	09 30	10 29		
2795 D	10	58	09	E 012.54	B	10 29	11 18			10 29	11 18	10 31	11 13
2795 N	11	51	43	E 179.15	A/B	11 18	12 16	11 18	12 16	11 18	12 16		
2796 D	12	45	23	W014.27	A	12 16	13 05			12 16	13 05	12 19	13 00
2796 N	13	38	57	E 152.34	B/A	13 05	14 04	13 05	14 03	13 05	14 04		
2797 D	14	32	37	W041.08	B	14 04	14 52			14 04	14 52	14 06	14 48
2797 N	15	26	11	E 125.53	A	14 52	15 51	14 57	15 51	14 57	15 51		
2798 D	16	19	51	W067.89	A	15 51	16 39			15 51	16 39	15 53	16 35
2798 N	17	13	25	E 098.72	B	16 39	17 38	16 42	17 38	16 42	17 38		
2799 D	18	07	06	W094.70	B	17 38	18 24			17 38	18 24	17 40	18 22
2799 N	19	00	39	E 071.91	A	18 31	19 25	18 31	19 25	18 31	19 25		
2800 D	19	54	20	W121.51	A	19 25	20 14			19 25	20 10	19 28	20 09
2800 N	20	47	53	E 045.10	B	20 14	21 12	20 14	21 12	20 14	21 12		
2801 D	21	41	34	W148.31	B	21 12	21 55			21 12	21 55	21 15	21 52
2801 N	22	35	07	E 018.30									
2802 D	23	28	47	W175.13									
2802 N	00	22	21	W008.51									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 3 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2803 D	01	16	02	E 158.07	A	00 50	01 35			00 51	01 35	00 53	01 31
2803 N	02	09	35	W035.32	A	01 35	02 34	01 36	02 34	01 35	02 34		
2804 D	03	03	16	E 131.26	B/A	02 34	03 23			02 34	03 23	02 37	03 22
2804 N	03	56	49	W062.13	B	03 23	04 21	03 23	04 21	03 23	04 21		
2805 D	04	50	30	E 104.45	B	04 21	04 53			04 21	04 52	04 20	04 52
2805 N	05	44	04	W088.94	B	05 34	06 09	05 34	06 07	05 34	06 09		
2806 D	06	37	44	E 077.64	B	06 09	06 57			06 09	06 57	06 11	06 52
2806 N	07	31	18	W115.75	A/B	06 57	07 56	06 58	07 56	06 57	07 56		
2807 D	08	24	58	E 050.83	A	07 56	08 44			07 56	08 44	07 58	08 40
2807 N	09	18	32	W142.56	B/A	08 44	09 43	08 45	09 43	08 44	09 43		
2808 D	10	12	12	E 024.02	B	09 43	10 32			09 43	10 32	09 46	10 27
2808 N	11	05	46	W169.37	B	10 32	11 30	10 32	10 42	10 32	10 42		
2808 N	11	05	46	W169.37	A			10 56	11 30				
2809 D	11	59	27	W002.79	A	11 30	12 19					11 33	12 14
2809 N	12	53	00	E 163.82	B	12 19	13 18	12 29	13 16	12 29	13 17		
2810 D	13	46	41	W029.60	B	13 18	14 06			13 17	14 06	13 20	14 02
2810 N	14	40	14	E 137.01	A/B	14 06	15 05	14 12	15 04	14 06	15 05		
2811 D	15	33	55	W056.41	A	15 05	15 53			15 05	15 53	15 07	15 49
2811 N	16	27	28	E 110.20	B	15 53	16 52	15 56	16 52	15 57	16 52		
2812 D	17	21	09	W083.22	B	16 52	17 40			16 52	17 40	16 54	17 36
2812 N	18	14	42	E 083.40	A	17 40	18 39	17 41	18 39	17 40	18 39		
2813 D	19	08	23	W110.03	A	18 39	19 28			18 39	19 24	18 42	19 23
2813 N	20	01	56	E 056.58	B	19 28	20 26	19 28	20 25	19 28	20 26		
2814 D	20	55	37	W136.84	B	20 26	21 15			20 26	21 11	20 29	21 11
2814 N	21	49	10	E 029.78	A	21 15	22 14	21 16	22 13	21 15	22 14		
2815 D	22	42	51	W163.64	A	22 14	22 56			22 14	22 57	22 16	22 54
2815 N	23	36	24	E 002.97									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 4 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2816 D	00	30	05	E 169.55	A	00 13	00 49			00 14	00 49	00 14	00 45
2816 N	01	23	39	W023.84	A	00 49	01 48	00 50	01 46	00 49	01 48		
2817 D	02	17	19	E 142.74	A/B	01 48	02 37			01 48	02 37	01 51	02 32
2817 N	03	10	53	W050.65	B	02 37	03 35	02 37	03 35	02 37	03 35		
2818 D	04	04	34	E 115.93	B	03 35	04 16			03 35	04 14	03 38	04 13
2818 N	04	58	07	W077.46	B	04 50	05 23	04 50	05 23	04 50	05 23		
2819 D	05	51	48	E 089.12	B	05 23	06 11			05 23	06 11	05 25	06 07
2819 N	06	45	21	W104.27	A/B	06 11	07 10	06 12	07 09	06 11	07 10		
2820 D	07	39	02	E 062.31	A	07 10	07 58			07 10	07 58	07 12	07 57
2820 N	08	32	35	W131.08	B/A	07 58	08 57	07 59	08 56	07 58	08 57		
2821 D	09	26	16	E 035.50	B	08 57	09 46			08 57	09 46	09 00	09 41
2821 N	10	19	49	W157.89	A/B	09 46	10 44	09 46	10 40	09 46	10 44		
2822 D	11	13	30	E 008.69	A	10 44	11 33			10 44	11 33	10 47	11 32
2822 N	12	07	03	E 175.30	B/A	11 33	12 31	11 33	12 31	11 33	12 31		
2823 D	13	00	44	W018.12	B	12 31	13 20			12 31	13 20	12 34	13 16
2823 N	13	54	17	E 148.49	A/B	13 20	14 19	13 21	14 18	13 20	14 19		
2824 D	14	47	58	W044.93	A	14 19	15 07			14 19	15 07	14 21	15 03
2824 N	15	41	31	E 121.68	B	15 07	16 06	15 13	16 06	15 13	16 06		
2825 D	16	35	12	W071.74	B	16 06	16 54			16 06	16 54	16 07	16 53
2825 N	17	28	45	E 094.88	A	16 54	17 53	16 57	17 53	16 57	17 53		
2826 D	18	22	26	W098.55	A	17 53	18 42			17 53	18 39	17 56	18 37
2826 N	19	16	00	E 068.07	B	18 42	19 40	18 42	19 40	18 42	19 40		
2827 D	20	09	40	W125.35	B	19 40	20 29			19 40	20 25	19 43	20 25
2827 N	21	03	14	E 041.26	A	20 29	21 28	20 30	21 28	20 29	21 28		
2828 D	21	56	55	W152.16	A	21 28	22 10			21 28	22 10	21 30	22 08
2828 N	22	50	28	E 014.45									
2829 D	23	44	09	W178.97	A	23 31	00 03			23 31	00 03	23 31	23 59
2829 N	00	37	42	W012.36	A	00 03	01 02	00 04	01 02	00 03	01 02		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 5 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HORSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2830 D	01	31	23	E 154.22	A/B	01 02	01 51			01 02	01 51	01 05	01 50
2830 N	02	24	56	W039.17	B	01 51	02 49	01 51	02 49	01 51	02 49		
2831 D	03	18	37	E 127.41	B	02 49	03 33			02 49	03 33	02 52	03 33
2831 N	04	12	10	W065.98	B	04 07	04 37	04 07	04 37	04 07	04 37		
2832 D	05	05	51	E 100.60	B	04 37	05 25			04 37	05 25	04 39	05 21
2832 N	05	59	24	W092.79	B	05 25	05 42	05 26	05 42	05 25	05 42		
2832 N	05	59	24	W092.79	B	05 47	06 24	05 47	06 24	05 47	06 24		
2833 D	06	53	05	E 073.79	B	06 24	07 12			06 24	07 12	06 26	07 04
2833 N	07	46	38	W119.60	A/B	07 12	08 11	07 13	08 11	07 12	08 11		
2834 D	08	40	19	E 046.98	A	08 11	09 00			08 11	09 00	08 14	08 55
2834 N	09	33	52	W146.41	B/A	09 00	09 10	09 00	09 58	09 00	09 58		
2835 D	10	27	33	E 020.17	B					09 58	10 47	10 01	10 42
2835 N	11	21	06	W173.22	B	10 50	11 45	10 48	10 57	10 47	11 45		
2835 N	11	21	06	W173.22	A			11 11	11 46				
2836 D	12	14	47	W006.64	A	11 45	12 34			11 45	12 34	11 48	12 30
2836 N	13	08	20	E 159.97	B/A	12 34	13 33	12 35	13 33	12 34	13 33		
2837 D	14	02	02	W033.45	B	13 33	14 21			13 33	14 21	13 35	14 17
2837 N	14	55	35	E 133.17	A/B	14 21	15 20	14 27	15 20	14 21	15 20		
2838 D	15	49	16	W060.26	A	15 20	16 08			15 20	16 08	15 22	16 07
2838 N	16	42	49	E 106.38	B	16 08	17 07	16 12	17 07	16 12	17 07		
2839 D	17	36	30	W087.06	B	17 07	17 56			17 07	17 54	17 10	17 51
2839 N	18	30	03	E 079.55	A	17 56	18 54	17 56	18 54	17 56	18 54		
2840 D	19	23	44	W113.38	A	18 54	19 43			18 54	19 39	18 57	19 39
2840 N	20	17	17	E 052.74	B	19 43	20 42	19 44	20 42	19 43	20 42		
2841 D	21	10	58	W140.68	B	20 42	21 30			20 42	21 27	20 44	21 25
2841 N	22	04	31	E 025.93	A	21 30	22 29	21 31	22 29	21 30	22 29		
2842 D	22	58	12	W167.49	A	22 29	23 14			22 29	23 13	22 31	23 13
2842 N	23	51	45	W000.88									



**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 6 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2843 D	00	45	26	E 165.70	A	00 23	01 05			00 29	01 05	00 29	01 00
2843 N	01	38	59	W027.69	A	01 05	02 03	01 05	02 03	01 05	02 03		
2844 D	02	32	40	E 138.89	A/B	02 03	02 52			02 03	02 52	02 06	02 47
2844 N	03	26	13	W054.50	B	02 52	03 51	02 53	03 50	02 52	03 51		
2845 D	04	19	54	E 112.08	B	03 51	04 31			03 51	04 29	03 53	04 24
2845 N	05	13	27	W081.31									
2846 D	06	07	08	E 085.27	B							05 40	06 22
2846 N	07	00	41	W108.12	A	06 46	07 25	06 47	07 25	06 47	07 25		
2847 D	07	54	23	E 058.46	A	07 25	08 13			07 25	08 13	07 28	08 09
2847 N	08	47	56	W134.93	B/A	08 13	09 12	08 14	09 12	08 13	09 12		
2848 D	09	41	37	E 031.65	B	09 12	10 01			09 12	10 01	09 15	10 00
2848 N	10	35	10	W161.74	A/B	10 01	10 59	10 01	11 00	10 01	10 59		
2849 D	11	28	51	E 004.84	A	10 59	11 48			10 59	11 48	11 05	11 40
2849 N	12	22	24	E 171.45	A	11 48	11 57	11 49	11 57	11 48	11 57		
2849 N	12	22	24	E 171.45	B	12 08	12 47	12 09	12 46	12 09	12 47		
2850 D	13	16	04	W021.97	B	12 47	13 35			12 47	13 35	12 49	13 31
2850 N	14	09	38	E 144.65	A/B	13 35	14 34	13 36	14 34	13 35	14 34		
2851 D	15	03	19	W048.78	A	14 34	15 22			14 34	15 22	14 36	15 18
2851 N	15	56	52	E 117.84	B/A	15 22	16 21	15 28	16 21	15 22	16 21		
2852 D	16	50	33	W075.59	B	16 21	17 10			16 21	17 10	16 24	17 05
2852 N	17	44	06	E 091.03	A	17 10	18 08	17 12	18 09	17 12	18 08		
2853 D	18	37	47	W102.39	A	18 08	18 57			18 08	18 54	18 11	18 53
2853 N	19	31	20	E 064.22	B	18 57	19 56	18 58	19 56	18 57	19 56		
2854 D	20	25	01	W129.20	B	19 56	20 44			19 56	20 40	19 58	20 40
2854 N	21	18	34	E 037.41	A	20 44	21 43	20 45	21 43	20 44	21 43		
2855 D	22	12	15	W156.01	A	21 43	22 29			21 43	22 28	21 45	22 27
2855 N	23	05	48	E 010.60									
2856 D	23	59	30	E 177.18	A	23 44	00 19			23 45	00 19	23 47	00 14
2856 N	00	53	02	W016.21	A	00 19	01 17	00 19	01 17	00 19	01 17		

TABLE 2-2  
SENSOR ON – OFF TIMES  
DATE 7 NOVEMBER 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2857 D	01	46	44	E 150.27	A/B	01 17	02 06			01 17	02 06	01 20	02 05
2857 N	02	40	16	W043.02	B	02 06	03 04	02 07	03 04	02 06	03 04		
2858 D	03	33	58	E 123.56	B	03 04	03 47			03 04	03 46	03 07	03 45
2858 N	04	27	31	W069.83	B	04 22	04 52	04 22	04 52	04 22	04 52		
2859 D	05	21	12	E 096.75	B	04 52	05 40			04 52	05 40	04 54	05 36
2859 N	06	14	45	W096.64	B	05 40	05 57	05 41	05 57	05 40	05 57		
2859 N	06	14	45	W096.64	B	06 02	06 39	06 03	06 39	06 03	06 39		
2860 D	07	08	26	E 069.94	B	06 39	07 27			06 39	07 27	06 42	07 27
2860 N	08	01	59	W123.45	B	07 27	07 41	07 28	07 41	07 27	07 41		
2860 N	08	01	59	W123.45	A	07 42	08 26	07 42	08 26	07 48	08 26		
2861 D	08	55	40	E 043.13	A	08 26	09 15			08 26	09 15	08 29	09 10
2861 N	09	49	13	W150.25	B/A	09 15	10 13	09 15	10 14	09 15	09 25		
2862 D	10	42	54	E 016.32	B	10 13	11 02			10 25	11 02	10 16	10 58
2862 N	11	36	27	W177.06	A/B	11 02	12 01	11 03	12 01	11 02	12 01		
2863 D	12	30	08	W010.49	A	12 01	12 49			12 01	12 49	12 03	12 48
2863 N	13	23	41	E 156.13	B/A	12 49	13 48	12 50	13 47	12 49	13 48		
2864 D	14	17	22	W 037.30	B	13 48	14 36			13 48	14 36	13 50	14 32
2864 N	15	10	55	E 129.32	A/B	14 36	15 35	14 37	15 34	14 36	15 35		
2865 D	16	04	36	W064.10	A	15 35	16 24			15 35	16 24	15 38	16 19
2865 N	16	58	09	E 102.51	B	16 24	17 22	16 26	17 23	16 26	17 22		
2866 D	17	51	51	W090.91	B	17 22	18 11			17 22	18 10	17 25	18 07
2866 N	18	45	23	E 075.70	A	18 11	19 10	18 12	19 10	18 11	19 10		
2867 D	19	39	05	W117.72	A	19 10	19 54			19 10	19 54	19 12	19 50
2867 N	20	32	37	E 048.89	B			19 59	20 57	19 58	20 57		
2868 D	21	26	19	W144.53	B	21 28	21 45			20 57	21 42	20 59	21 38
2868 N	22	19	52	E 022.08	A	21 45	22 44	21 46	22 44	21 45	22 44		
2869 D	23	13	33	W171.34	A	22 44	23 32			22 44	23 32	22 47	23 28
2869 N	00	07	06	W004.73									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 8 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2870 D	01	00	47	E 161.85	A	00 42	01 20			00 43	01 20	00 44	01 15
2870 N	01	54	20	W031.54	A	01 20	02 18	01 21	02 19	01 20	02 18		
2871 D	02	48	01	E 135.04	A/B	02 18	03 07			02 18	03 07	02 21	03 03
2871 N	03	41	34	W058.35	B	03 07	04 06	03 08	04 06	03 07	04 06		
2872 D	04	35	15	E 108.23	B	04 06	04 45			04 06	04 41	04 08	04 40
2872 N	05	28	48	W085.16	B	05 18	05 53	05 18	05 51	05 18	05 53		
2873 D	06	22	29	E 081.42	B	05 53	06 41			05 53	06 41	05 56	06 41
2873 N	07	16	02	W111.97	A/B	06 41	07 40	06 42	07 40	06 41	07 40		
2874 D	08	09	43	E 054.61	A	07 40	08 29			07 40	08 29	07 43	08 17
2874 N	09	03	16	W138.77	B/A	08 29	09 27	08 30	09 27	08 29	09 27		
2875 D	09	56	57	E 027.80	B	09 27	10 16			09 27	10 16	09 30	10 12
2875 N	10	50	30	W165.58	A/B	10 16	11 15	10 17	11 14	10 16	11 15		
2876 D	11	44	12	E 000.99	A	11 15	12 03			11 15	12 03	11 17	11 59
2876 N	12	37	44	E 167.61	B/A	12 03	13 02	12 04	13 02	12 03	13 02		
2877 D	13	31	26	W025.82	B	13 02	13 50			13 02	13 50	13 04	13 46
2877 N	14	24	58	E 140.80	A/B	13 50	14 49	13 51	14 49	13 50	14 49		
2878 D	15	18	40	W052.62	A	14 49	15 38			14 49	15 38	14 52	15 33
2878 N	16	12	12	E 113.99	B	15 38	16 36	15 42	16 36	15 42	16 36		
2879 D	17	05	54	W079.43	B	16 36	17 25			16 36	17 19	16 46	17 24
2879 N	17	59	27	E 087.18	A	17 25	18 24	17 26	18 24	17 25	18 24		
2880 D	18	53	08	W106.24	A	18 24	19 12			18 24	19 09	18 26	19 07
2880 N	19	46	41	E 060.37	B	19 12	20 11	19 13	20 11	19 12	20 11		
2881 D	20	40	22	W133.05	B	20 11	20 59			20 11	20 57	20 13	20 55
2881 N	21	33	55	E 033.56	A	20 59	21 58	21 00	21 58	20 59	21 58		
2882 D	22	27	36	W159.86	A	21 58	22 45			21 58	22 41	21 57	22 39
2882 N	23	21	09	E 006.75									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 9 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2883 D	00	14	50	E 173.33	A	23 53	00 34			23 59	00 34	00 02	00 33
2883 N	01	08	23	W020.06	A	00 34	01 32	00 35	01 33	00 34	01 32		
2884 D	02	02	04	E 146.52	A/B	01 32	02 21			01 32	02 21	01 34	02 20
2884 N	02	55	37	W046.87	B	02 21	03 20	02 22	03 20	02 21	03 20		
2885 D	03	49	19	E 119.71	B	03 20	04 01			03 20	04 00	03 22	03 57
2885 N	04	42	51	W073.67									
2886 D	05	36	33	E 092.90									
2886 N	06	30	05	W100.49	B	06 19	06 54	06 19	06 55	06 19	06 54		
2887 D	07	23	47	E 066.49	B	06 54	07 43			06 54	07 43	06 56	07 38
2887 N	08	17	19	W127.29	A/B	07 43	08 41	07 44	08 42	07 43	08 41		
2888 D	09	11	01	E 039.28	A	08 41	09 30			08 41	09 30	08 44	09 25
2888 N	10	04	33	W154.10	B/A	09 30	10 29	09 31	10 29	09 30	10 29		
2889 D	10	58	15	E 012.47	B	10 29	11 17			10 29	11 17	10 31	11 13
2889 N	11	51	47	E 179.09	A/B	11 17	12 16	11 18	12 16	11 17	12 16		
2890 D	12	45	29	W014.33	A	12 16	13 04			12 16	13 04	12 18	13 00
2890 N	13	39	02	E 152.23	A	13 04	14 03	13 05	13 12	13 04	13 12		
2890 N	13	39	02	E 152.23	B			13 22	14 03	13 21	14 03		
2891 D	14	32	43	W041.14	B	14 03	14 52			14 03	14 52	14 05	14 50
2891 N	15	26	16	E 125.47	A/B	14 52	15 50	14 53	15 51	14 52	15 50		
2892 D	16	19	57	W067.95	A	15 50	16 39			15 50	16 39	15 53	16 38
2892 N	17	13	30	E 093.66	B	16 39	17 37	16 40	17 38	16 40	17 37		
2893 D	18	07	11	W094.76	B	17 37	18 26			17 37	18 23	17 40	18 22
2893 N	19	00	44	E 071.85	A	18 26	19 25	18 27	19 23	18 26	19 25		
2894 D	19	54	25	W121.57	A	19 25	20 13			19 25	20 10	19 27	20 09
2894 N	20	47	58	E 045.04	B	20 13	21 12	20 14	21 12	20 13	21 12		
2895 D	21	41	40	W148.38	B	21 12	21 57			21 12	21 57	21 13	21 56
2895 N	22	35	12	E 018.23									
2896 D	23	28	54	W175.19									
2896 N	00	22	26	W008.58									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 10 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2897 D	01	16	08	E 158.00	A	00 57	01 35			00 58	01 35	00 59	01 30
2897 N	02	09	40	W035.38	A	01 35	02 34	01 36	02 34	01 35	02 34		
2898 D	03	03	22	E 131.19	A/B	02 34	03 22			02 34	03 22	02 36	03 18
2898 N	03	56	54	W062.19	B	03 22	04 21	03 23	04 21	03 22	04 21		
2899 D	04	50	36	E 104.38	B	04 21	05 00			04 21	04 59	04 27	04 51
2899 N	05	44	08	W089.00	B	05 35	06 08	05 35	06 09	05 35	06 08		
2900 D	06	37	50	E 077.57	B	06 08	06 57			06 08	06 57	06 11	06 52
2900 N	07	31	22	W115.81	A/B	06 57	07 55	06 58	07 56	06 57	07 55		
2901 D	08	25	04	E 050.76	A	07 55	08 44			07 55	08 44	07 58	08 40
2901 N	09	18	37	W142.62	A	08 44	09 43	08 45	08 54	08 44	08 53		
2901 N	09	18	37	W142.62	B			08 56	09 43	08 56	09 43		
2902 D	10	12	18	E 023.96	B	09 43	10 31			09 43	10 31	09 45	10 27
2902 N	11	05	51	W169.43	A/B	10 31	11 30	10 32	11 30	10 31	11 14		
2903 D	11	59	32	W002.36	A	11 30	12 18					11 32	12 14
2903 N	12	53	05	E 163.76	B/A	12 18	13 17	12 19	13 17	12 49	13 17		
2904 D	13	46	46	W029.66	B	13 17	14 06			13 17	14 06	13 19	14 01
2904 N	14	40	19	E 136.95	A/B	14 06	15 04	14 07	15 05	14 06	15 04		
2905 D	15	34	01	W056.47	A	15 04	15 53			15 04	15 53	15 07	15 48
2905 N	16	27	33	E 110.14	B	15 53	16 51	15 57	16 50	15 57	16 51		
2906 D	17	21	15	W083.28	B	16 51	17 40			16 51	17 39	16 54	17 39
2906 N	18	14	47	E 083.33	A	17 40	18 39	17 41	18 39	17 40	18 39		
2907 D	19	08	29	W110.09	A	18 39	19 27			18 39	19 23	18 41	19 23
2907 N	20	02	01	E 056.52	B	19 27	20 26	19 28	20 24	19 27	20 26		
2908 D	20	55	43	W136.90	B	20 26	21 14			20 26	21 12	20 28	21 07
2908 N	21	49	15	E 029.72	A	21 14	22 13	21 16	22 13	21 14	22 13		
2909 D	22	42	57	W163.71	A	22 13	23 02			22 13	23 01	22 16	22 57
2909 N	23	36	29	E 002.90									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 11 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2910 D	00	30	11	E 169.48	A	00 12	00 49			00 13	00 49	00 13	00 44
2910 N	01	23	43	W023.90	A	00 49	01 48	00 50	01 48	00 49	01 48		
2911 D	02	17	25	E 142.67	A/B	01 48	02 15			01 48	02 36	01 50	02 11
2911 N	03	10	57	W050.71	B			02 37	03 35	02 36	03 35		
2912 D	04	04	39	E 115.36	B	03 35	04 14			03 35	04 13		
2912 N	04	58	12	W077.52	B	04 50	05 22	04 50	05 22	04 50	05 22		
2913 D	05	51	53	E 089.05	B	05 22	06 11			05 22	06 11	05 25	06 10
2913 N	06	45	26	W104.33	B	06 11	06 28	06 12	06 28	06 11	06 28		
2913 N	06	45	26	W104.33	B	06 34	07 09	06 34	07 09	06 34	07 09		
2914 D	07	39	07	E 062.25	B	07 09	07 58			07 09	07 58	07 12	07 53
2914 N	08	32	40	W131.14	B	07 58	08 10	07 59	08 09	07 58	08 09		
2914 N	08	32	40	W131.14	B	08 15	08 57	08 16	08 57	08 15	08 57		
2915 D	09	26	22	E 035.43	B	08 57	09 45			08 57	09 45	08 59	09 41
2915 N	10	19	54	W157.95	A/B	09 45	10 44	09 46	10 44	09 45	10 44		
2916 D	11	13	36	E 008.63	A	10 44	11 32			10 44	11 32	10 46	11 28
2916 N	12	07	08	E 175.24	B/A	11 32	12 31	11 33	12 32	11 32	12 31		
2917 D	13	00	50	W018.18	B	12 31	13 19			12 31	13 19	12 33	13 15
2917 N	13	54	22	E 148.43	A/B	13 19	14 18	13 21	14 19	13 19	14 18		
2918 D	14	48	03	W044.99	A	14 18	15 12			14 18	15 07	14 21	15 02
2918 N	15	41	36	E 121.62	B			15 13	16 05	15 13	16 05		
2919 D	16	35	18	W071.80	B	16 50	16 54			16 05	16 54	16 08	16 49
2919 N	17	28	50	E 094.81	A	16 54	17 53	16 56	17 53	16 56	17 53		
2920 D	18	22	32	W098.61	A	17 53	18 41			17 53	18 39	17 55	18 40
2920 N	19	16	04	E 068.00	B	18 41	19 40	18 42	19 40	18 41	19 40		
2921 D	20	09	46	W125.42	B	19 40	20 28			19 40	20 25	19 42	20 24
2921 N	21	03	18	E 041.20	A	20 28	21 27	20 30	21 28	20 28	21 27		
2922 D	21	57	00	W152.23	A	21 27	22 13			21 27	22 13	21 30	22 11
2922 N	22	50	33	E 014.39									
2923 D	23	44	14	W179.04	A	23 31	00 03			23 31	00 03	23 31	23 59
2923 N	00	37	47	W012.42	A	00 03	01 02	00 04	01 00	00 03	01 02		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 12 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2924 D	01	31	28	E 154.15	A/B	01 02	01 33			01 02	01 50	01 04	01 49
2924 N	02	25	01	W039.23	B			01 51	02 49	01 50	02 49		
2925 D	03	18	43	E 127.34	B					02 49	03 31	02 51	03 30
2925 N	04	12	15	W066.04	B	04 06	04 36	04 06	04 37	04 06	04 36		
2926 D	05	05	57	E 100.54	B	04 36	05 25			04 36	05 25	04 39	05 20
2926 N	05	59	29	W092.85	B	05 25	05 40	05 26	05 41	05 25	05 42		
2926 N	05	59	29	W092.85	B	05 48	06 23	05 48	06 23	05 48	06 23		
2927 D	06	53	11	E 073.72	B	06 23	07 12			06 23	07 12	06 26	07 04
2927 N	07	46	43	W119.66	A/B	07 12	08 10	07 13	08 11	07 12	08 10		
2928 D	08	40	25	E 046.91	A	08 10	08 59			08 10	08 59	08 13	08 55
2928 N	09	33	57	W146.47	B/A	08 59	09 58	09 00	09 58	08 59	09 58		
2929 D	10	27	39	E 020.11	B	09 58	10 46			09 58	10 46	10 00	10 45
2929 N	11	21	11	W173.28	A/B	10 46	11 45	10 47	11 44	10 46	11 45		
2930 D	12	14	53	W006.70	A	11 45	12 33			11 45	12 33	11 48	12 29
2930 N	13	08	25	E 159.91	B/A	12 33	13 32	12 35	13 33	12 33	13 32		
2931 D	14	02	07	W033.51	B	13 32	14 21			13 32	14 21	13 35	14 20
2931 N	14	55	39	E 133.11	A/B	14 21	15 19	14 22	15 19	14 21	15 19		
2932 D	15	49	21	W060.32	A	15 19	16 08			15 19	16 08	15 22	16 07
2932 N	16	42	53	E 106.30	B	16 08	17 07	16 10	17 07	16 10	17 07		
2933 D	17	36	35	W087.13	B	17 07	17 55			17 07	17 55	17 09	17 54
2933 N	18	30	08	E 079.48	A	17 55	18 54	17 57	18 54	17 57	18 54		
2934 D	19	23	49	W113.94	A	18 54	19 42			18 54	19 39	18 56	19 38
2934 N	20	17	22	E 052.68	B	19 42	20 41	19 44	20 41	19 42	20 41		
2935 D	21	11	04	W140.75	B	20 41	21 30			20 41	21 26	20 44	21 25
2935 N	22	04	36	E 025.87	A	21 30	22 28	21 31	22 29	21 30	22 28		
2936 D	22	58	18	W167.56	A	22 28	23 05			22 28	23 05	22 31	23 13
2936 N	23	51	50	W000.94									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 13 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRJS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2937 D	00	45	32	E 165.63	A	00 29	01 04			00 29	01 04	00 32	00 59
2937 N	01	39	04	W027.75	A	01 04	02 03	01 05	02 03	01 04	02 03		
2938 D	02	32	46	E 138.82	A/B	02 03	02 51			02 03	02 51	02 05	02 47
2938 N	03	26	18	W054.56	B	02 51	03 50	02 53	03 50	02 51	03 50		
2939 D	04	20	00	E 112.02	B	03 50	04 31			03 50	04 28	03 53	04 27
2939 N	05	13	32	W081.37	B	05 06	05 37	05 05	05 37	05 05	05 37		
2940 D	06	07	14	E 085.20	B	05 37	06 26			05 37	06 26	05 40	06 21
2940 N	07	00	46	W108.18	A/B	06 26	07 24	06 27	07 25	06 26	07 24		
2941 D	07	54	28	E 058.40	A	07 24	08 13			07 24	08 13	07 27	08 09
2941 N	08	48	00	W134.99	B/A	08 13	09 12	08 14	09 12	08 13	09 12		
2942 D	09	41	42	E 031.59	B	09 12	10 00			09 12	10 00	09 14	09 56
2942 N	10	35	14	W161.80	A/B	10 00	10 59	10 02	10 58	10 00	10 59		
2943 D	11	28	56	E 004.78	A	10 59	11 47			10 59	11 47	11 01	11 46
2943 N	12	22	28	E 171.39	B/A	11 47	12 46	11 49	12 47	11 47	12 46		
2944 D	13	16	11	W022.03	B	12 46	13 35			12 46	13 35	12 49	13 30
2944 N	14	09	43	E 144.58	A/B	13 35	14 33	13 36	14 33	13 35	14 33		
2945 D	15	03	25	W048.84	A	14 33	15 22			14 33	15 22	14 36	15 07
2945 N	15	56	57	E 117.78	B	15 22	16 21	15 27	16 20	15 27	16 21		
2946 D	16	50	39	W075.65	B	16 21	17 09			16 21	17 09	16 23	17 04
2946 N	17	44	11	E 090.97	A	17 09	18 08	17 11	18 07	17 11	18 08		
2947 D	18	37	53	W102.46	A/B	18 08	18 56	18 51	18 57	18 08	18 54	18 10	18 52
2947 N	19	31	25	E 064.16	B	18 56	19 55	18 57	19 55				
2948 D	20	25	07	W129.27	B	19 55	20 44					19 57	20 39
2948 N	21	18	39	E 037.35	A	20 44	21 42	20 45	21 43	20 44	21 42		
2949 D	22	12	21	W156.08	A	21 42	22 26			21 42	22 25	21 44	22 23
2949 N	23	05	53	E 010.54									
2950 D	23	59	35	E 177.11	A	23 44	00 18			23 45	00 18	23 46	00 14
2950 N	00	53	07	W016.27	A	00 18	01 17	00 19	01 17	00 18	01 17		



**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 14 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND - NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2951 D	01	46	49	E 150.31	A/B	01 17	02 05			01 17	02 05	01 19	02 01
2951 N	02	40	21	W043.08	B	02 05	03 04	02 06	03 04	02 05	03 04		
2952 D	03	34	03	E 123.49	B	03 04	03 47			03 04	03 46	03 06	03 41
2952 N	04	27	35	W069.89	B	04 21	04 51	04 22	04 51	04 22	04 51		
2953 D	05	21	17	E 096.63	B	04 51	05 40			04 51	05 40	04 54	05 35
2953 N	06	14	49	W096.70	B	05 40	05 58	05 41	05 58	05 40	05 58		
2953 N	06	14	49	W096.70	B	06 03	06 38	06 04	06 38				
2954 D	07	08	31	E 069.88	B	06 38	07 27			06 38	07 27	06 40	07 25
2954 N	08	02	03	W123.51	A/B	07 27	08 26	07 28	08 25	07 27	08 26		
2955 D	08	55	46	E 043.07	A	08 26	09 14			08 26	09 14	08 28	09 13
2955 N	09	49	18	W150.32	B/A	09 14	10 13	09 16	10 12	09 14	10 13		
2956 D	10	43	00	E 016.26	B	10 13	11 01			10 13	11 01	10 15	10 57
2956 N	11	36	32	W177.12	B	11 01	12 00	11 03	11 11	11 01	11 11		
2956 N	11	36	32	W177.12	A			11 12	12 01	11 17	12 00		
2957D	12	30	14	W010.56	A	12 00	12 49			12 00	12 49	12 03	12 44
2957 N	13	23	46	E 156.07	B/A	12 49	13 47	12 50	13 47	12 49	13 47		
2958 D	14	17	28	W037.36	B	13 47	14 36			13 47	14 36	13 50	14 31
2958 N	15	11	00	E 129.26	A/B	14 36	15 35	14 37	15 35	14 36	15 35		
2959 D	16	04	42	W064.17	A	15 35	16 23			15 35	16 23	15 37	16 18
2959 N	16	58	14	E 102.45	B	16 23	17 22	16 28	17 22	16 28	17 22		
2960 D	17	51	56	W090.98	B	17 22	18 10			17 22	18 10	17 24	18 03
2960 N	18	45	28	E 075.64	A	18 13	19 09	18 12	19 10	18 11	19 09		
2961 D	19	39	10	W117.79	A	19 09	19 58			19 09	19 55	19 12	19 53
2961 N	20	32	42	E 048.83	B	19 58	20 56	19 59	20 57	19 58	20 56		
2962 D	21	26	24	W144.60	B	20 56	21 45			20 56	21 40	20 59	21 40
2962 N	22	19	56	E 022.02	A	21 45	22 44	21 46	22 43	21 45	22 44		
2963 D	23	13	38	W171.41	A	22 44	23 28			22 44	23 28	22 46	23 28
2963 N	00	07	10	W004.79									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 15 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2964 D	01	00	52	E 161.79	A	00 42	01 19			00 43	01 19	00 44	01 18
2964 N	01	54	24	W031.60	A	01 19	02 18	01 21	02 18	01 19	02 18		
2965 D	02	48	07	E 134.99	A/B	02 18	03 06			02 18	03 06	02 20	03 06
2965 N	03	41	38	W058.40	B	03 06	04 05	03 08	04 05	03 06	04 05		
2966 D	04	35	21	E 108.18	B	04 05	04 45			04 05	04 44	04 08	04 42
2966 N	05	28	52	W085.20	B	05 18	05 52	05 18	05 53	05 18	05 52		
2967 D	06	22	35	E 081.37	B	05 52	06 41			05 52	06 41	05 55	06 36
2967 N	07	16	07	W112.01	A/B	06 41	07 40	07 00	07 40	06 41	07 40		
2968 D	08	09	49	E 054.56	A	07 40	08 28			07 40	08 28	07 42	08 27
2968 N	09	03	21	W138.82	A	08 28	08 40	08 30	08 39	08 28	08 40		
2968 N	09	03	21	W138.82	B	08 52	09 27	08 52	09 27	08 52	09 27		
2969 D	09	57	03	E 027.75	B	09 27	10 15			09 27	10 15	09 29	10 11
2969 N	10	50	35	W165.63	A/B	10 15	11 14	10 17	11 12	10 15	11 14		
2970 D	11	44	17	E 000.94	A	11 14	12 03			11 14	12 03	11 17	11 58
2970 N	12	37	49	E 167.56	B/A	12 03	13 01	12 04	13 01	12 03	13 01		
2971 D	13	31	31	W025.87	B	13 01	13 50			13 01	13 50	13 04	13 45
2971 N	14	25	03	E 140.75	A/B	13 50	14 49	13 51	14 49	13 50	14 49		
2972 D	15	18	45	W052.68	A	14 49	15 37			14 49	15 37	14 51	15 33
2972 N	16	12	17	E 113.94	B/A	15 37	16 36	15 43	16 36	15 37	15 42		
2973 D	17	05	59	W079.49	B	16 36	17 24					16 38	17 20
2973 N	17	59	31	E 087.13	A	17 24	18 23	17 30	18 23	17 30	18 23		
2974 D	18	53	13	W106.30	A/B	18 23	19 12	19 06	19 12	18 23	19 12	18 26	19 07
2974 N	19	46	45	E 060.32	B	19 12	20 10	19 12	20 10	19 12	20 10		
2975 D	20	40	28	W133.10	B	20 10	20 59			20 10	20 56	20 13	20 51
2975 N	21	33	59	E 033.51	A	20 59	21 57	21 00	21 57	20 59	21 57		
2976 D	22	27	42	W159.91	A	21 57	22 41			21 57	22 41	22 00	22 38
2976 N	23	21	13	E 006.70									

TABLE 2-2  
SENSOR ON – OFF TIMES  
DATE 16 NOVEMBER 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2977 D	00	14	56	E 173.28	A	23 59	00 33			23 59	00 33	00 01	00 29
2977 N	01	08	27	W020.11	A	00 33	01 32	00 35	01 32	00 33	01 32		
2978 D	02	02	10	E 146.47	A/B	01 32	02 20			01 32	02 20	01 34	02 16
2978 N	02	55	42	W046.92	B	02 20	03 19	02 22	03 19	02 20	03 19		
2979 D	03	49	24	E 119.66	B	03 19	04 01			03 19	04 00	03 22	04 00
2979 N	04	42	56	W073.72	B	04 34	05 06	04 35	05 06	04 35	05 06		
2980 D	05	36	38	E 092.85	B	05 06	05 55			05 06	05 55	05 09	05 54
2980 N	06	30	10	W100.53	A/B	05 55	06 54	05 56	06 54	05 55	06 54		
2981 D	07	23	52	E 066.04	A	06 54	07 42			06 54	07 42	06 56	07 41
2981 N	08	17	24	W127.34	A	07 42	07 55	07 44	07 54	07 42	07 54		
2981 N	08	17	24	W127.34	A	08 00	08 41	08 01	08 41	08 01	08 41		
2982 D	09	11	06	E 039.23	A	08 41	09 29			08 41	09 29	08 43	09 28
2982 N	10	04	38	W154.15	A	09 29	09 40	09 31	09 39	09 29	09 39		
2982 N	10	04	38	W154.15	B	09 50	10 28	09 50	10 27	09 50	10 28		
2983 D	10	58	20	E 012.42	B	10 28	11 17			10 28	11 17	10 31	11 12
2983 N	11	51	52	E 179.04	A/B	11 17	12 15	11 18	12 15	11 17	12 15		
2984 D	12	45	34	W014.39	A	12 15	13 04			12 15	13 04	12 18	13 03
2984 N	13	39	06	E 152.23	B/A	13 04	14 03	13 05	14 03	13 04	14 03		
2985 D	14	32	49	W041.20	B	14 03	14 51			14 03	14 51	14 05	14 50
2985 N	15	26	20	E 125.42	A/B	14 51	15 50	14 53	15 50	14 51	15 50		
2986 D	16	20	03	W068.01	A	15 50	16 38			15 50	16 38	15 52	16 34
2986 N	17	13	34	E 098.61	B	16 38	17 37	16 43	17 38	16 43	17 37		
2987 D	18	07	17	W094.82	B	17 37	18 26			17 37	18 25	17 39	18 25
2987 N	19	00	48	E 071.80	A	18 26	19 24	18 27	19 24	18 26	19 24		
2988 D	19	54	31	W121.62	A/B	19 24	20 13	20 08	20 13	19 24	20 13	19 27	20 05
2988 N	20	48	02	E 044.99	B	20 13	21 11	20 13	21 11	20 13	21 11		
2989 D	21	41	45	W148.43	B	21 11	21 55			21 11	21 54	21 14	21 52
2989 N	22	35	16	E 018.18									
2990 D	23	28	59	W175.24									
2990 N	00	22	31	W008.62									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 17 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
2991 D	01	16	13	E 157.95	A	00 53	01 34			00 58	01 34	00 59	01 30
2991 N	02	09	45	W035.43	A	01 34	02 33	01 36	02 33	01 34	02 33		
2992 D	03	03	27	E 131.14	A/B	02 33	03 22			02 33	03 22	02 36	03 17
2992 N	03	56	59	W062.24	B	03 22	04 20	03 23	04 20	03 22	04 20		
2993 D	04	50	41	E 104.33	B	04 20	05 00			04 20	04 59	04 23	04 57
2993 N	05	44	13	W089.05	B	05 33	06 08	05 33	06 08	05 33	06 08		
2994 D	06	37	55	E 077.52	B	06 08	06 56			06 08	06 56	06 10	06 55
2994 N	07	31	27	W115.86	B	06 56	07 16	06 58	07 15	06 56	07 15		
2994 N	07	31	27	W115.86	B	07 23	07 55	07 22	07 55	07 22	07 55		
2995 D	08	25	10	E 050.71	B	07 55	08 43			07 55	08 43	07 57	08 39
2995 N	09	18	41	W142.67	B	08 43	08 55	08 45	08 54	08 43	08 55		
2995 N	09	18	41	W142.67	B	09 03	09 42	09 01	09 42	09 01	09 42		
2996 D	10	12	24	E 023.90	B	09 42	10 31			09 42	10 31	09 45	10 26
2996 N	11	05	55	W169.48	A/B	10 31	11 29	10 32	11 29	10 31	11 17		
2997 D	11	59	38	W002.91	A	11 29	12 18					11 32	12 17
2997 N	12	53	09	E 163.71	B/A	12 18	13 17	12 19	13 16	12 28	13 17		
2998 D	13	46	52	W029.72	B	13 17	14 05			13 17	14 05	13 19	14 01
2998 N	14	40	23	E 136.90	B	14 05	15 04	14 06	14 13	14 05	14 13		
2998 N	14	40	23	E 136.90	A			14 13	15 04	14 25	15 04		
2999 D	15	34	06	W056.53	A	15 04	15 52			15 04	15 52	15 06	15 48
2999 N	16	27	37	E 110.09	B	15 52	16 51	15 57	16 51	15 57	16 51		
3000 D	17	21	20	W083.33	B	16 51	17 39			16 51	17 39	16 54	17 39
3000 N	18	14	52	E 083.28	A/B	17 39	18 38	17 45	18 38	17 39	18 38		
3001 D	19	08	34	W110.14	A/B	18 38	19 27	19 22	19 27	18 38	19 27	18 41	19 22
3001 N	20	02	06	E 056.48	B	19 27	20 25	19 27	20 25	19 27	20 25		
3002 D	20	55	48	W136.95	B	20 25	21 11			20 25	21 10	20 28	21 10
3002 N	21	49	20	E 029.67	A	21 14	22 13	21 15	22 13	21 14	22 13		
3003 D	22	43	02	W163.76	A	22 13	22 57			22 13	22 57	22 15	22 53
3003 N	23	36	34	E 002.86									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 18 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3004 D	00	30	16	E 169.43	A	00 13	00 48			00 14	00 48	00 16	00 44
3004 N	01	23	48	W023.95	A	00 48	01 47	00 50	01 47	00 48	01 47		
3005 D	02	17	30	E 142.62	A/B	01 47	02 36			01 47	02 36	01 53	02 31
3005 N	03	11	02	W050.76	B	02 36	03 34	02 37	03 34	02 36	03 34		
3006 D	04	04	45	E 115.81	B	03 34	04 16			03 34	04 16	03 37	04 15
3006 N	04	58	16	W077.57	B	04 43	05 22	04 49	05 22	04 49	05 22		
3007 D	05	51	59	E 089.00	B	05 22	06 10			05 22	06 10	05 24	06 09
3007 N	06	45	30	W104.38	A/B	06 10	07 09	06 12	07 09	06 10	07 09		
3008 D	07	39	13	E 062.19	A	07 09	07 57			07 09	07 57	07 11	07 53
3008 N	08	32	44	W131.19	B/A	07 57	08 56	07 59	08 56	07 57	08 56		
3009 D	09	26	27	E 035.38	B	08 56	09 45			08 56	09 45	08 59	09 40
3009 N	10	19	58	W158.00	A/B	09 45	10 43	09 46	10 43	09 45	10 43		
3010 D	11	13	41	E 008.57	A	10 43	11 32			10 43	11 32	10 46	11 27
3010 N	12	07	12	E 175.19	B/A	11 32	12 30	11 33	12 30	11 32	12 30		
3011 D	13	00	55	W018.23	B	12 30	13 19			12 30	13 19	12 33	13 14
3011 N	13	54	26	E 148.38	A/B	13 19	14 18	13 21	14 18	13 19	14 18		
3012 D	14	48	09	W045.04	A	14 18	15 06			14 18	15 06	14 20	15 05
3012 N	15	41	40	E 121.58	B/A	15 06	16 05	15 13	16 05	15 06	16 05		
3013 D	16	35	23	W071.85	B	16 05	16 53			16 05	16 53	16 07	16 52
3013 N	17	28	55	E 094.77	A/B	16 53	17 52	16 59	17 52	16 53	17 52		
3014 D	18	22	37	W098.66	A/B	17 52	18 41	18 36	18 41	17 52	18 41	17 55	18 36
3014 N	19	16	09	E 067.96	B	18 41	19 39	18 41	19 39	18 41	19 39		
3015 D	20	09	51	W125.47	B	19 39	20 28			19 39	20 24	19 42	20 23
3015 N	21	03	23	E 041.15	A	20 28	21 27	20 29	21 25	20 28	21 27		
3016 D	21	57	06	W152.28	A	21 27	22 13			21 27	22 12	21 29	22 10
3016 N	22	50	37	E 014.34									
3017 D	23	44	20	W179.09	A	23 31	00 02			23 31	00 02	23 33	23 58
3017 N	00	37	51	W012.47	A	00 02	01 01	00 04	01 01	00 02	01 01		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 19 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3018 D	01	31	34	E 154.10	A/B	01 01	01 50			01 01	01 50	01 03	01 45
3018 N	02	25	05	W039.28	B	01 50	02 48	01 51	02 48	01 50	02 48		
3019 D	03	18	48	E 127.29	B	02 48	03 33			02 48	03 33	02 51	03 29
3019 N	04	12	19	W066.09									
3020 D	05	06	02	E 100.48									
3020 N	05	59	33	W092.90	B	05 49	06 23	05 49	06 23	05 49	06 23		
3021 D	06	53	16	E 073.67	B	06 23	07 11			06 23	07 11	06 25	07 10
3021 N	07	46	47	W119.71	A	07 11	07 30	07 13	07 30	07 11	07 31		
3021 N	07	46	47	W119.71	A	07 30	08 10	07 33	08 10	07 33	08 10		
3022 D	08	40	30	E 046.86	A	08 10	08 59			08 10	08 59	08 12	08 57
3022 N	09	34	01	W146.52	B/A	08 59	09 57	09 00	09 57	08 59	09 57		
3023 D	10	27	44	E 020.06	B	09 57	10 46			09 57	10 46	10 00	10 45
3023 N	11	21	15	W173.32	A/B	10 46	11 44	10 47	11 44	10 46	11 44		
3024 D	12	14	58	W006.75	A	11 44	12 33			11 44	12 33	11 47	12 28
3024 N	13	08	30	E 159.87	B/A	12 33	13 32	12 34	13 32	12 33	13 32		
3025 D	14	02	12	W033.56	B	13 32	14 20			13 32	14 20	13 34	14 16
3025 N	14	55	44	E 133.06	A	14 20	15 19	14 26	15 19	14 26	15 19		
3026 D	15	49	26	W060.37	A	15 19	16 07			15 19	16 07	15 21	16 03
3026 N	16	42	58	E 106.25	B	16 07	17 06	16 12	17 06	16 13	17 06		
3027 D	17	36	41	W087.18	B	17 06	17 55			17 06	17 53	17 09	17 50
3027 N	18	30	12	E 079.44	A	17 55	18 53	17 56	18 53	17 56	18 53		
3028 D	19	23	55	W113.99	A/B	18 53	19 42	19 37	19 42	18 53	19 42	18 56	19 37
3028 N	20	17	26	E 052.63	B	19 42	20 41	19 42	20 41	19 42	20 41		
3029 D	21	11	09	W140.80	B	20 41	21 29			20 41	21 26	20 43	21 25
3029 N	22	04	40	E 025.82	A	21 29	22 28	21 31	22 28	21 29	22 28		
3030 D	22	58	23	W167.61	A	22 28	23 13			22 28	23 12	22 30	23 12
3030 N	23	51	54	W000.99									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 20 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3031 D	00	45	37	E 165.58	A	00 28	01 04			00 29	01 04	00 31	01 03
3031 N	01	39	08	W027.80	A	01 04	02 02	01 05	02 02	01 04	02 02		
3032 D	02	32	51	E 138.77	A/B	02 02	02 51			02 02	02 51		
3032 N	03	26	22	W054.61	B	02 51	03 50	02 52	03 50	02 51	03 50		
3033 D	04	20	05	E 111.96	B	03 50	04 31			03 50	04 30		
3033 N	05	13	36	W081.42	B	05 04	05 37	05 04	05 37	05 04	05 37		
3034 D	06	07	19	E 085.15	B	05 37	06 25			05 37	06 25	05 39	06 24
3034 N	07	00	50	W108.22	A/B	06 25	07 24	06 27	07 24	06 25	07 24		
3035 D	07	54	33	E 058.35	A	07 24	08 13			07 24	08 13	07 27	08 08
3035 N	08	48	04	W135.04	A	08 13	09 11	08 14	08 24	08 13	08 22		
3035 N	08	48	04	W135.04	B			08 26	09 11	08 26	09 11		
3036 D	09	41	47	E 031.54	B	09 11	10 00			09 11	10 00	09 13	09 55
3036 N	10	35	19	W161.84	A/B	10 00	10 58	10 01	10 59	10 00	10 58		
3037 D	11	29	02	E 004.73	A	10 58	11 47			10 58	11 47	11 01	11 43
3037 N	12	22	33	E 171.35	B/A	11 47	12 46	11 49	12 46	11 47	12 46		
3038 D	13	16	16	W022.08	B	12 46	13 34			12 46	13 34	12 48	13 30
3038 N	14	09	47	E 144.54	A/B	13 34	14 33	13 36	14 33	13 34	14 33		
3039 D	15	03	30	W048.89	A	14 33	15 21			14 33	15 21	14 35	15 17
3039 N	15	57	01	E 117.73	B	15 21	16 20	15 27	16 20	15 27	16 20		
3040 D	16	50	44	W075.70	B	16 20	17 09			16 20	17 08	16 23	17 08
3040 N	17	44	15	E 090.92	A	17 09	18 07	17 10	18 07	17 10	18 07		
3041 D	18	37	58	W102.51	A/B	18 07	18 53	18 51	18 56	18 07	18 56	18 10	18 51
3041 N	19	31	29	E 064.11	B			18 56	19 55	18 56	19 55		
3042 D	20	25	12	W129.32	B	19 55	20 43			19 55	20 39	19 57	20 39
3042 N	21	18	43	E 037.30	A	20 43	21 42	20 45	21 42	20 43	21 42		
3043 D	22	12	26	W156.13	A	21 42	22 27			21 42	22 27	21 44	22 26
3043 N	23	05	57	E 010.49									
3044 D	23	59	40	E 177.06	A	23 45	00 18			23 46	00 18	23 49	00 17
3044 N	00	53	11	W016.32	A	00 18	01 16	00 19	01 16	00 18	01 16		

**TABLE 2-2  
SENSOR ON – OFF TIMES  
DATE 21 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3045 D	01	46	54	E 150.25	A/B	01 16	02 05			01 16	02 05	01 19	01 43
3045 N	02	40	25	W043.13	B	02 05	03 04	02 32	03 04	02 05	03 04		
3046 D	03	34	08	E 123.45	B	03 04	03 48			03 04	03 48	03 06	03 44
3046 N	04	27	40	W069.94	B	04 22	04 51	04 23	04 51	04 23	04 51		
3047 D	05	21	22	E 096.64	B	04 51	05 39			04 51	05 39	04 53	05 38
3047 N	06	14	53	W096.74	B	05 39	05 57	05 41	05 56	05 39	05 57		
3047 N	06	14	53	W096.74	B	06 03	06 38	06 04	06 38	06 04	06 38		
3048 D	07	08	37	E 069.83	B	06 38	07 27			06 38	07 27	06 41	07 25
3048 N	08	02	08	W123.55	A/B	07 27	08 25	07 28	08 25	07 27	08 25		
3049 D	08	55	51	E 043.02	A	08 25	09 14			08 25	09 14	08 28	09 09
3049 N	09	49	22	W150.36	B/A	09 14	10 12	09 15	10 12	09 14	10 12		
3050 D	10	43	05	E 016.21	B	10 12	11 01			10 12	11 01	10 15	10 56
3050 N	11	36	36	W177.17	A/B	11 01	12 00	11 03	12 00	11 01	12 00		
3051 D	12	30	19	W010.60	A	12 00	12 48			12 00	12 48	12 02	12 44
3051 N	13	23	50	E 156.02	A	12 48	13 47	12 50	12 57	12 48	12 57		
3051 N	13	23	50	E 156.02	B			12 58	13 47	13 15	13 47		
3052 D	14	17	33	W037.41	B	13 47	14 35			13 47	14 35	13 49	14 31
3052 N	15	11	04	E 129.21	A/B	14 35	15 34	14 42	15 31	14 35	15 34		
3053 D	16	04	47	W064.22	A	15 34	16 23			15 34	16 23	15 37	16 18
3053 N	16	58	18	E 102.40	B	16 23	17 21	16 25	17 21	16 25	17 21		
3054 D	17	52	01	W091.03	B	17 21	18 10			17 21	18 09	17 24	18 09
3054 N	18	45	32	E 075.59	A	18 10	19 09	18 12	19 09	18 10	19 09		
3055 D	19	39	15	W117.84	A/B	19 09	19 57	19 52	19 57	19 09	19 57	19 11	19 53
3055 N	20	32	46	E 048.78	B	19 57	20 56	19 57	20 56	19 57	20 56		
3056 D	21	26	29	W144.65	B	20 56	21 44			20 56	21 41	20 58	21 40
3056 N	22	20	00	E 021.97	A	21 44	22 43	21 46	22 43	21 44	22 43		
3057 D	23	13	43	W171.46	A	22 43	23 32			22 43	23 30	22 46	23 27
3057 N	00	07	14	W004.84									



**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 22 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3058 D	01	00	58	E 161.73	A	00 43	01 19			00 44	01 19	00 46	01 14
3058 N	01	54	28	W031.64	A	01 19	02 17	01 21	02 17	01 19	02 17		
3059 D	02	48	12	E 134.93	A/B	02 17	03 06			02 17	03 06	02 20	03 02
3059 N	03	41	43	W058.45	B	03 06	04 05	03 08	04 05	03 06	04 05		
3060 D	04	35	26	E 108.12	B	04 05	04 46			04 05	04 45	04 07	04 42
3060 N	05	28	57	W085.26	B	05 20	05 52	05 20	05 52	05 20	05 52		
3061 D	06	22	40	E 081.31	B	05 52	06 40			05 52	06 40	05 55	06 36
3061 N	07	16	11	W112.07	A/B	06 40	07 39	06 42	07 39	06 40	07 39		
3062 D	08	09	54	E 054.50	A	07 39	08 28			07 39	08 28	07 42	08 27
3062 N	09	03	25	W138.88	B/A	08 28	09 26	08 29	09 26	08 28	09 26		
3063 D	09	57	08	E 027.69	B	09 26	10 15			09 26	10 15	09 29	10 11
3063 N	10	50	39	W165.69	A/B	10 15	11 14	10 17	11 14	10 15	11 14		
3064 D	11	44	22	E 000.88	A	11 14	12 02			11 14	12 02	11 16	11 58
3064 N	12	37	53	E 167.50	B/A	12 02	13 01	12 04	13 01	12 02	13 01		
3065 D	13	31	36	W025.93	B	13 01	13 49			13 01	13 49	13 03	13 49
3065 N	14	25	07	E 140.69	A/B	13 49	14 48	13 51	14 48	13 49	14 48		
3066 D	15	18	50	W052.74	A	14 48	15 37			14 48	15 37	14 51	15 32
3066 N	16	12	21	E 113.88	B/A	15 37	15 44	15 42	16 35	15 37	16 35		
3067 D	17	06	04	W079.55	B	16 43	17 24			16 35	17 24	16 38	17 19
3067 N	17	59	35	E 087.07	A	17 24	18 23	17 26	18 23	17 26	18 23		
3068 D	18	53	18	W106.36	A/B	18 23	19 11			18 23	19 11	18 25	19 07
3068 N	19	46	49	E 060.26	B	19 11	20 10	19 11	20 10	19 11	20 10		
3069 D	20	40	33	W133.16	B	20 10	20 58			20 10	20 56	20 12	20 50
3069 N	21	34	03	E 033.46	A	20 58	21 57	21 00	21 57	20 58	21 57		
3070 D	22	27	47	W159.97	A	21 57	22 41			21 57	22 42	21 59	22 41
3070 N	23	21	17	E 006.65									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 23 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3071 D	00	15	01	E 173.22	A	23 59	00 33			00 00	00 33	00 01	00 28
3071 N	01	08	32	W020.16	A	00 33	01 31	00 34	01 31	00 33	01 31		
3072 D	02	02	15	E 146.41	A/B	01 31	02 20			01 31	02 20	01 34	02 19
3072 N	02	55	46	W046.97	B	02 20	03 19	02 22	03 19	02 20	03 19		
3073 D	03	49	29	E 119.60	B	03 19	04 02			03 19	04 01	03 21	03 56
3073 N	04	43	00	W073.78	B	04 37	05 06	04 37	05 06	04 37	05 06		
3074 D	05	36	43	E 092.79	B	05 06	05 54			05 06	05 54	05 09	05 54
3074 N	06	30	14	W100.59	B	05 54	06 53	05 56	06 13	05 54	06 13		
3074 N	06	30	14	W100.59	B			06 19	06 53	06 20	06 53		
3075 D	07	23	57	E 065.98	B	06 53	07 42			06 53	07 42	06 56	07 37
3075 N	08	17	28	W127.40	A/B	07 42	08 40	07 43	08 40	07 42	08 40		
3076 D	09	11	11	E 039.17	A	08 40	09 29			08 40	09 29	08 43	09 24
3076 N	10	04	42	W154.21	A	09 29	10 28	09 31	09 40	09 29	09 38		
3076 N	10	04	42	W154.21	B			09 41	10 26	09 41	10 28		
3077 D	10	58	25	E 012.36	B	10 28	11 16			10 28	11 16	10 30	11 12
3077 N	11	51	56	E 178.98	B	11 16	11 25	11 18	11 23	11 16	11 27		
3077 N	11	51	56	E 178.98	A	11 25	12 15	11 27	12 15	11 27	12 15		
3078 D	12	45	39	W014.45	A	12 15	13 03			12 15	13 03	12 17	13 02
3078 N	13	39	10	E 152.17	B/A	13 03	14 02	13 05	14 02	13 03	14 02		
3079 D	14	32	53	W041.26	B	14 02	14 51			14 02	14 51	14 04	14 46
3079 N	15	26	24	E 125.36	A/B	14 51	15 49	14 58	15 49	14 51	15 49		
3080 D	16	20	08	W068.07	A	15 49	16 38			15 49	16 38	15 52	16 36
3080 N	17	13	38	E 098.56	B	16 38	17 37	16 41	17 35	16 41	17 37		
3081 D	18	07	22	W094.88	A	17 37	18 25			17 37	18 24	17 39	18 24
3081 N	19	00	52	E 071.75	A	18 25	19 24	18 27	19 24	18 26	19 24		
3082 D	19	54	36	W121.68	A	19 24	20 12			19 24	20 11	19 26	20 11
3082 N	20	48	06	E 044.94	B	20 12	21 11	20 12	21 09	20 12	21 11		
3083 D	21	41	50	W148.49	B	21 11	21 57			21 11	21 57	21 13	21 55
3083 N	22	35	21	E 018.13									
3084 D	23	29	04	W175.30									
3084 N	00	22	35	W008.68									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 24 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3085 D	01	16	18	E 157.89	A	00 53	01 34			00 58	01 34	00 58	01 33
3085 N	02	09	49	W035.49	A	01 34	02 33	01 34	02 31	01 34	02 33		
3086 D	03	03	32	E 131.08	A/B	02 33	03 21			02 33	03 21	02 35	03 20
3086 N	03	57	03	W062.30	B	03 21	04 20	03 21	04 18	03 21	04 20		
3087 D	04	50	46	E 104.27	B	04 20	04 58			04 20	04 59	04 22	05 00
3087 N	05	44	17	W089.11	B	05 33	06 07	05 33	06 06	05 33	06 07		
3088 D	06	38	00	E 077.46	B	06 07	06 56			06 07	06 56	06 10	06 55
3088 N	07	31	31	W115.92	A/B	06 56	07 54	06 56	07 53	06 56	07 54		
3089 D	08	25	14	E 050.65	A	07 54	08 43			07 54	08 43	07 57	08 39
3089 N	09	18	45	W142.73	B/A	08 43	09 42	08 43	09 39	08 43	09 42		
3090 D	10	12	28	E 023.84	B	09 42	10 30			09 42	10 30	09 44	10 29
3090 N	11	05	59	W169.54	A/B	10 30	11 29	10 30	11 27	10 30	11 28		
3091 D	11	59	43	W002.97	A	11 29	12 17					11 31	12 13
3091 N	12	53	13	E 163.66	B/A	12 17	13 16	12 18	13 15	12 27	13 16		
3092 D	13	46	57	W029.78	B	13 16	14 05			13 16	14 05	13 18	14 00
3092 N	14	40	27	E 136.85	A/B	14 05	15 03	14 05	15 02	14 05	15 03		
3093 D	15	34	11	W056.58	A	15 03	15 52			15 03	15 52	15 06	15 47
3093 N	16	27	41	E 110.04	B	15 52	16 51	15 57	16 49	15 57	16 51		
3094 D	17	21	25	W083.39	B	16 51	17 39			16 51	17 39	16 53	17 38
3094 N	18	14	55	E 083.23	A	17 39	18 38	17 41	18 36	17 41	18 38		
3095 D	19	08	39	W110.20	A	18 38	19 26			18 38	19 23	18 40	19 22
3095 N	20	02	10	E 056.42	B	19 26	20 25	19 26	20 23	19 26	20 25		
3096 D	20	55	53	W137.01	B	20 25	21 12			20 25	21 12	20 27	21 12
3096 N	21	49	24	E 029.61	A			21 14	22 11	21 14	22 12		
3097 D	22	43	07	W163.82	A	22 33	22 57			22 12	22 58		
3097 N	23	36	38	E 002.80									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 25 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HORSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3098 D	00	30	21	E 169.37	A	00 14	00 48			00 14	00 48	00 16	00 47
3098 N	01	23	52	W024.01	A	00 48	01 47	00 48	01 45	00 48	01 47		
3099 D	02	17	35	E 142.56	A/B	01 47	02 35			01 47	02 35	01 49	02 34
3099 N	03	11	06	W050.82	B	02 35	03 34	02 36	03 33	02 35	03 34		
3100 D	04	04	49	E 115.75	B	03 34	04 16			03 34	04 16	03 36	04 14
3100 N	04	58	20	W077.63	B	04 49	05 21	04 49	05 20	04 49	05 21		
3101 D	05	52	03	E 088.94	B	05 21	06 10			05 21	06 10	05 23	06 05
3101 N	06	45	34	W104.44	A/B	06 10	07 08	06 10	07 07	06 10	07 08		
3102 D	07	39	18	E 062.13	A	07 08	07 57			07 08	07 57	07 11	07 56
3102 N	08	32	48	W131.24	B/A	07 57	08 56	07 57	08 54	07 57	08 56		
3103 D	09	26	32	E 035.32	B	08 56	09 44			08 56	09 44	08 58	09 43
3103 N	10	20	02	W158.05	A/B	09 44	10 43	09 44	10 41	09 44	10 43		
3104 D	11	13	46	E 008.51	A	10 43	11 31			10 43	11 31	10 45	11 30
3104 N	12	07	16	E 175.14	B/A	11 31	12 30	11 32	12 28	11 31	12 30		
3105 D	13	01	00	W018.29	B	12 30	13 19			12 30	13 19	12 32	13 14
3105 N	13	54	30	E 148.33	A/B	13 19	14 17	13 19	14 16	13 19	14 17		
3106 D	14	48	14	W045.10	A	14 17	15 06			14 17	15 06	14 20	15 01
3106 N	15	41	44	E 121.52	B/A	15 06	16 05	15 06	16 03	15 06	16 05		
3107 D	16	35	28	W071.91	B	16 05	16 53			16 05	16 53	16 07	16 49
3107 N	17	28	59	E 094.71	A	16 53	17 52	16 56	17 50	16 56	17 52		
3108 D	18	22	42	W098.72	A	17 52	18 40			17 52	18 39	17 54	18 39
3108 N	19	16	13	E 067.90	B	18 40	19 39	18 40	19 38	18 40	19 39		
3109 D	20	09	56	W125.53	B	19 39	20 25			19 39	20 25	19 41	20 23
3109 N	21	03	27	E 041.09	A			20 28	21 25	20 28	21 26		
3110 D	21	57	10	W152.34	A	21 28	22 11			21 26	22 10	21 29	22 07
3110 N	22	50	41	E 014.28									
3111 D	23	44	24	W179.15	A	23 31	00 02					23 33	23 57
3111 N	00	37	55	W012.53	A	00 02	01 01	00 03	00 57				

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 26 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3112 D	01	31	38	E 154.04	A/B	01 01	01 49					01 03	01 48
3112 N	02	25	09	W039.34	B	01 49	02 48						
3113 D	03	18	53	E 127.23	B	02 48	03 33					02 50	03 32
3113 N	04	12	23	W066.14	B	04 08	04 35						
3114 D	05	06	07	E 100.42	B	04 35	05 24					04 38	05 23
3114 N	05	59	37	W092.95	B	05 24	05 44						
3114 N	05	59	37	W092.95	B	05 48	06 22						
3115 D	06	53	21	E 073.61	B	06 22	07 11					06 25	07 07
3115 N	07	46	51	W119.76	B	07 11	07 32						
3116 D	08	40	35	E 046.81	A	08 33	08 58					08 12	08 54
3116 N	09	34	05	W146.57	A	08 58	09 12						
3117 D	10	27	49	E 020.00	B	10 31	10 45					09 59	10 41
3117 N	11	21	19	W173.38	B	10 45	10 59						
3118 D	12	15	03	W006.81	A	11 50	12 33					11 46	12 28
3118 N	13	08	33	E 159.81	A	12 33	12 44	12 43	13 03				
3119 D	14	02	17	W033.62	B							13 34	14 11
3119 N	14	55	48	E 133.00	B/A	14 19	15 19	14 20	15 17	14 29	15 19		
3120 D	15	49	31	W060.43	A	15 19	16 07			15 19	16 07	15 21	16 02
3120 N	16	43	02	E 106.19	A/B	16 07	17 06	16 12	16 56	16 13	16 47		
3121 D	17	36	45	W087.24	B	17 06	17 54					17 08	17 53
3121 N	18	30	16	E 079.38	A	17 54	18 53						
3122 D	19	23	59	W114.05	A/B	18 53	19 41					18 55	19 37
3122 N	20	17	30	E 052.57	B	19 41	20 40						
3123 D	21	11	13	W140.86	B	20 40	21 26					20 43	21 24
3123 N	22	04	44	E 025.76									
3124 D	22	58	28	W167.67	A	22 26	23 15					22 30	23 11
3124 N	23	51	58	W001.05									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 27 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HQRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3125 D	00	45	42	E 165.52	A	00 29	01 03			00 29	01 03	00 31	01 02
3125 N	01	39	12	W027.85	A	01 03	02 02	01 03	02 00	01 03	02 02		
3126 D	02	32	56	E 138.71	A/B	02 02	02 50			02 02	02 50	02 05	02 50
3126 N	03	26	26	W054.66	B	02 50	03 49	02 50	03 10	02 50	03 04		
3127 D	04	20	10	E 111.91	B	03 49	04 31					03 52	04 30
3127 N	05	13	40	W081.47	B	05 05	05 36						
3128 D	06	07	24	E 085.09	B	05 36	06 25					05 39	06 21
3128 N	07	00	54	W108.28	A	06 25	07 24						
3129 D	07	54	38	E 058.29	A	07 24	08 12					07 26	08 11
3129 N	08	48	08	W135.09	B	08 12	09 11	08 30	09 09	08 30	09 11		
3130 D	09	41	52	E 031.48	B	09 11	09 59			09 11	09 35	09 13	09 34
3130 N	10	35	22	W161.90	A	09 59	10 58	10 11	10 56	10 11	10 58		
3131 D	11	29	06	E 004.67	A	10 58	11 47			10 58	11 47	11 01	11 42
3131 N	12	22	37	E 171.29	B/A	11 47	12 45	11 47	12 44	11 47	12 45		
3132 D	13	16	20	W022.14	B	12 45	13 34			12 45	13 34	12 48	13 33
3132 N	14	09	51	E 144.48	A/B	13 34	14 33	13 34	14 31	13 34	14 33		
3133 D	15	03	34	W048.95	A	14 33	15 21			14 33	15 21	14 35	15 20
3133 N	15	57	05	E 117.67	B/A	15 21	16 20	15 21	16 18	15 21	16 20		
3134 D	16	50	48	W075.76	B	16 20	17 08			16 20	17 08	16 22	17 04
3134 N	17	44	19	E 090.86	A	17 08	18 07	17 11	18 06	17 11	18 07		
3135 D	18	38	03	W102.57	A/B	18 07	18 55	18 50	18 55	18 07	18 54	18 10	18 55
3135 N	19	31	33	E 064.05	B	18 55	19 54	18 55	19 53	18 55	19 54		
3136 D	20	25	17	W129.38	B	19 54	20 43			19 54	20 43	19 57	20 38
3136 N	21	18	47	E 037.25	A	20 43	21 41	20 43	21 40	20 43	21 41		
3137 D	22	12	31	W156.19	A	21 41	22 28			21 41	22 27	21 44	22 26
3137 N	23	06	01	E 010.44									
3138 D	23	59	45	E 177.00	A	23 45	00 17			23 45	00 17	23 49	00 13
3138 N	00	53	15	W016.37	A	00 17	01 16	00 18	01 15	00 17	01 16		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 28 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3139 D	01	46	59	E 150.19	A/B	01 16	02 04			01 16	02 04	01 18	02 00
3139 N	02	40	29	W043.18	B	02 04	03 03	02 05	03 02	02 04	03 03		
3140 D	03	34	13	E 123.39	B	03 03	03 16			03 03	03 45	03 03	03 47
3140 N	04	27	43	W069.99	B			04 21	04 49	04 21	04 50		
3141 D	05	21	27	E 096.58	B					04 50	05 39	04 53	05 38
3141 N	06	14	58	W096.80	B			05 39	05 58	05 39	05 58		
3141 N	06	14	58	W096.80	A			06 09	06 36	06 09	06 38		
3142 D	07	08	41	E 069.77	A					06 38	07 26	06 40	07 22
3142 N	08	02	11	W123.61	B/A	07 42	08 25	07 26	08 24	07 26	08 25		
3143 D	08	55	55	E 042.96	B	08 25	09 13			08 25	09 13	08 27	09 08
3143 N	09	49	26	W150.42	B	09 13	09 25	09 14	09 24	09 13	09 24		
3143 N	09	49	26	W150.42	A	09 33	10 12	09 34	10 11	09 34	10 12		
3144 D	10	43	09	E 016.15	A	10 12	11 01			10 12	11 01	10 14	10 56
3144 N	11	36	40	W177.23	B/A	11 01	11 59	11 01	11 58	11 01	11 59		
3145 D	12	30	23	W010.66	B	11 59	12 48			11 59	12 48	12 02	12 47
3145 N	13	23	54	E 155.96	A/B	12 48	13 47	12 48	13 45	12 48	13 47		
3146 D	14	17	38	W037.47	A	13 47	14 35			13 47	14 35	13 49	14 31
3146 N	15	11	08	E 129.15	A	14 35	14 41	14 36	14 41	14 35	14 41		
3146 N	15	11	08	E 129.15	B	15 13	15 34	14 42	15 32	14 42	15 34		
3147 D	16	04	52	W064.28	B	15 34	16 22			15 34	16 22	15 36	16 18
3147 N	16	58	22	E 102.35	A	16 22	17 21	16 25	17 19	16 25	17 21		
3148 D	17	52	06	W091.09	A	17 21	18 09			17 21	18 08	17 24	18 05
3148 N	18	45	36	E 075.54	B	18 09	19 08	18 09	19 07	18 09	19 08		
3149 D	19	39	20	W117.90	B	19 08	19 57			19 08	19 54	19 11	19 52
3149 N	20	32	50	E 048.73	A	19 57	20 55	19 57	20 54	19 57	20 55		
3150 D	21	26	34	W144.70	A	20 55	21 40			20 55	21 40	20 58	21 39
3150 N	22	20	04	E 021.92									
3151 D	23	13	48	W171.51									
3151 N	00	07	18	W004.89									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 29 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3152 D	01	01	02	E 161.68	A	00 43	01 18			00 44	01 18	00 46	01 18
3152 N	01	54	32	W031.70	A	01 18	02 17	01 19	02 16	01 18	02 17		
3153 D	02	48	16	E 134.87	A/B	02 17	03 06			02 17	03 06	02 20	03 05
3153 N	03	41	46	W058.51	B	03 06	03 54	03 06	04 03	03 06	04 04		
3154 D	04	35	30	E 108.06	B					04 04	04 45	04 07	04 45
3154 N	05	29	00	W085.32	B	05 35	05 52	05 20	05 50	05 20	05 52		
3155 D	06	22	44	E 081.25	B	05 52	06 40			05 52	06 40	05 54	06 36
3155 N	07	16	15	W112.13	A/B	06 40	07 01	06 40	07 38	06 40	07 39		
3156 D	08	09	58	E 054.44	A	07 44	08 27			07 39	08 27	07 41	08 26
3156 N	09	03	29	W138.94	A	08 27	08 42	08 28	08 40	08 27	08 42		
3156 N	09	03	29	W138.94	B	08 54	09 26	08 42	09 25	08 42	09 26		
3157 D	09	57	13	E 027.63	B	09 26	10 15			09 26	10 15	09 29	10 10
3157 N	10	50	43	W165.75	A/B	10 15	10 29	10 15	10 41	10 15	11 13		
3158 D	11	44	27	E 000.82	A	11 14	12 02			11 13	12 02	11 16	11 57
3158 N	12	37	57	E 167.45	B/A	12 02	13 01	12 02	12 58	12 02	13 01		
3159 D	13	31	41	W025.99	B	13 01	13 49			13 01	13 49	13 03	13 45
3159 N	14	25	11	E 140.64	B	13 49	13 57	13 50	13 56	13 49	13 55		
3159 N	14	25	11	E 140.64	A			13 59	14 47	13 59	14 48		
3160 D	15	18	55	W052.80	A	15 04	15 36			14 48	15 36	14 50	15 32
3160 N	16	12	25	E 113.83	B	15 36	16 35	15 42	16 33	15 42	16 35		
3161 D	17	06	09	W079.61	B	16 35	17 23			16 35	17 23	16 38	17 23
3161 N	17	59	39	E 087.02	A	17 23	18 22	17 25	18 21	17 25	18 22		
3162 D	18	53	23	W106.41	A/B	18 22	19 11	19 06	19 11	18 22	19 11	18 25	19 06
3162 N	19	46	53	E 060.21	B	19 11	20 09	19 11	20 08	19 11	20 09		
3163 D	20	40	37	W133.23	B	20 09	20 58			20 09	20 55	20 12	20 53
3163 N	21	34	07	E 033.40	A	20 58	21 57	20 58	21 56	20 58	21 57		
3164 D	22	27	51	W160.03	A	21 57	22 45			21 57	22 44	21 59	22 37
3164 N	23	21	21	W006.59									



**TABLE 2-2**  
**SENSOR ON - OFF TIMES**  
**DATE 30 NOVEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HRRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3165 D	00	15	05	E 173.16	A	23 59	00 32			00 00	00 32	00 00	00 28
3165 N	01	08	35	W020.22	A	00 32	01 31	00 33	01 29	00 32	01 31		
3166 D	02	02	19	E 146.36	A/B	01 31	02 20			01 31	02 20	01 34	02 15
3166 N	02	55	49	W047.02	B	02 20	03 18	02 20	03 17	02 20	03 18		
3167 D	03	49	33	E 119.55	B	03 18	03 34			03 18	04 01	03 21	03 56
3167 N	04	43	04	W073.83	B	04 48	05 06	04 36	05 04	04 36	05 06		
3168 D	05	36	47	E 092.74	B	05 06	05 54			05 06	05 54	05 08	05 50
3168 N	06	30	18	W100.64	B	05 54	06 14	05 55	06 13	05 54	06 10		
3168 N	06	30	18	W100.64	B	06 20	06 53	06 20	06 52	06 20	06 53		
3169 D	07	24	02	E 065.93	B	06 53	07 41			06 53	07 41	06 55	07 37
3169 N	08	17	32	W127.44	A/B	07 41	08 40	07 42	08 39	07 41	08 40		
3170 D	09	11	16	E 039.12	A	08 40	09 29			08 40	09 29	08 43	09 24
3170 N	10	04	46	W154.25	B/A	09 29	10 27	09 29	10 26	09 29	10 27		
3171 D	10	58	30	E 012.13	B	10 27	11 16			10 27	11 16	10 30	11 12
3171 N	11	52	00	E 178.94	A/B	11 16	12 15	11 16	12 13	11 16	12 15		
3172 D	12	45	44	W014.50	A	12 15	13 03			12 15	13 03	12 17	12 58
3172 N	13	39	14	E 152.13	B/A	13 03	14 02	13 04	14 01	13 03	14 02		
3173 D	14	32	58	W041.31	B	14 02	14 50			14 02	14 50	14 04	14 46
3173 N	15	26	28	E 125.32	A/B	14 50	15 49	14 51	15 46	14 50	15 49		
3174 D	16	20	12	W068.11	A	15 49	16 37			15 49	16 37	15 52	16 37
3174 N	17	13	42	E 098.51	B	16 37	17 36	16 40	17 34	16 40	17 36		
3175 D	18	07	26	W094.92	B	17 36	18 25			17 36	18 23	17 39	18 20
3175 N	19	00	56	E 071.70	A	18 25	19 23	18 25	19 21	18 25	19 23		
3176 D	19	54	40	W121.73	A	19 23	20 12			19 23	20 09	19 26	20 08
3176 N	20	48	10	E 044.89	B	20 12	21 11	20 12	21 09	20 12	21 11		
3177 D	21	41	54	W148.54	B	21 11	21 55			21 11	21 56	21 13	21 55
3177 N	22	35	24	E 018.08									
3178 D	23	29	08	W175.35									
3178 N	00	22	38	W008.73									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 1 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3179 D	01	16	22	E 157.84	A	00 58	01 33			00 58	01 33	00 58	01 29
3179 N	02	09	53	W035.54	A	01 33	02 32	01 34	02 31	01 33	02 32		
3180 D	03	03	37	E 131.03	A/B	02 32	02 48			02 32	03 21	02 35	03 16
3180 N	03	57	07	W062.34	B			03 21	04 19	03 21	04 20		
3181 D	04	50	51	E 104.22	B					04 20	04 59	04 22	04 57
3181 N	05	44	21	W089.15	B			05 34	06 05				
3182 D	06	38	05	E 077.41	B					06 09	06 55	06 09	06 51
3182 N	07	31	35	W115.96	A/B	07 17	07 54	06 56	07 53	06 55	07 54		
3183 D	08	25	19	E 050.60	A	07 54	08 43			07 54	08 43	07 57	08 38
3183 N	09	18	49	W142.77	B/A	08 43	09 41	08 43	09 40	08 43	09 41		
3184 D	10	12	33	E 023.79	B	09 41	10 30			09 41	10 30	09 44	10 25
3184 N	11	06	03	W169.58	A/B	10 30	11 29	10 30	11 27	10 30	11 17		
3185 D	11	59	47	W003.01	A	11 29	12 17					11 31	12 12
3185 N	12	53	17	E 163.61	B/A	12 17	13 16	12 18	13 14	12 28	13 16		
3186 D	13	47	01	W029.82	B	13 16	14 04			13 16	14 04	13 18	14 00
3186 N	14	40	31	E 136.80	A/B	14 04	15 03	14 05	15 01	14 04	15 03		
3187 D	15	34	15	W056.63	A	15 03	15 51			15 03	15 51	15 05	15 47
3187 N	16	27	45	E 109.99	A	15 51	15 56	15 57	16 49	15 57	16 50		
2187 N	16	27	45	E 109.99	B	16 02	16 50						
3188 D	17	21	29	W083.44	B	16 50	17 39			16 50	17 38	16 53	17 38
3188 N	18	14	59	E 083.18	A	17 39	18 37	17 39	18 36	17 39	18 37		
3189 D	19	08	43	W110.25	A	18 37	19 26			18 37	19 23	18 40	19 21
3189 N	20	02	13	E 056.37	B	19 26	20 25	19 26	20 22	19 26	20 25		
3190 D	20	55	57	W137.06	B	20 25	21 12			20 25	21 12	20 27	21 12
3190 N	21	49	27	E 029.56	A	21 13	22 12	21 24	22 10	21 13	22 12		
3191 D	22	43	11	W163.87	A	22 12	22 59			22 12	22 58	22 15	22 56
3191 N	23	36	42	E 002.75									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 2 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HORSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3192 D	00	30	26	E 169.32	A	00 14	00 48			00 14	00 48	00 15	00 47
3192 N	01	23	56	W024.05	A	00 48	01 46	00 48	01 45	00 48	01 46		
3193 D	02	17	40	E 142.51	A/B	01 46	02 35			01 46	02 35	01 49	02 30
3193 N	03	11	10	W050.86	B	02 35	03 34	02 35	03 32	02 35	03 34		
3194 D	04	04	54	E 115.70	B	03 34	03 50			03 34	04 13	03 36	04 14
3194 N	04	58	24	W077.67	B	05 04	05 21	04 49	05 20	04 49	05 21		
3195 D	05	52	08	E 088.89	B	05 21	06 09			05 21	06 09	05 23	06 05
3195 N	06	45	38	W104.47	A/B	06 09	07 08	06 10	07 06	06 09	07 08		
3196 D	07	39	22	E 062.09	A	07 08	07 57			07 08	07 57	07 10	07 52
3196 N	08	32	52	W131.28	B/A	07 57	08 55	07 57	08 53	07 57	08 55		
3197 D	09	26	36	E 035.29	B	08 55	09 44			08 55	09 44	08 58	09 43
3197 N	10	20	06	W158.09	A/B	09 44	10 43	09 44	10 41	09 44	10 43		
3198 D	11	13	50	E 008.47	A	10 43	11 31			10 43	11 31	10 45	11 30
3198 N	12	07	20	E 175.10	A	11 31	11 39	11 32	11 43	11 31	11 39		
3198 N	12	07	20	E 175.10	B	11 42	12 30	11 43	12 28	11 42	12 30		
3199 D	13	01	04	W018.33	B	12 30	13 18			12 30	13 18	12 32	13 14
3199 N	13	54	34	E 148.29	A/B	13 18	14 17	13 19	14 15	13 18	14 17		
3200 D	14	48	18	W045.15	A	14 17	15 05			14 17	15 05	14 19	15 01
3200 N	15	41	48	E 121.49	B/A	15 05	16 04	15 06	16 03	15 05	16 04		
3201 D	16	35	32	W071.95	B	16 04	16 53			16 04	16 53	16 07	16 52
3201 N	17	29	02	E 094.67	B	16 53	16 56	16 56	17 50	16 56	17 51		
3201 N	17	29	02	E 094.67	A	17 00	17 51						
3202 D	18	22	46	W098.77	A	17 51	18 40			17 51	18 38	17 54	18 36
3202 N	19	16	16	E 067.87	B	18 40	19 39	18 40	19 37	18 40	19 39		
3203 D	20	10	01	W125.57	B	19 39	20 27			19 39	20 24	19 41	20 23
3203 N	21	03	30	E 041.05	A	20 27	21 26	20 28	21 25	20 27	21 26		
3204 D	21	57	15	W152.39	A	21 26	22 12			21 26	22 12	21 28	22 12
3204 N	22	50	45	E 014.25									
3205 D	23	44	29	W179.19	A	23 30	00 02			23 31	00 02	23 33	23 57
3205 N	00	37	59	W012.57	A	00 02	01 00	00 02	00 59	00 02	01 00		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 3 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3206 D	01	31	43	E 154.00	A/B	01 00	01 33			01 00	01 49	01 03	01 44
3206 N	02	25	13	W039.37	B	02 39	02 48	02 23	02 46	02 25	02 48		
3207 D	03	18	57	E 127.19	B	02 48	03 04			02 48	03 32	02 50	03 32
3207 N	04	12	27	W066.19	B			04 07	04 33	04 07	04 35		
3208 D	05	06	11	E 100.38	B					04 35	05 23	04 37	05 22
3208 N	05	59	41	W092.99	B			05 24	05 41	05 23	05 42		
3208 N	05	59	41	W092.99	B			05 48	06 21	05 48	06 22		
3209 D	06	53	25	E 073.57	B					06 22	07 11	06 24	07 10
3209 N	07	46	55	W119.81	A/B	07 34	08 10	07 11	08 08	07 11	08 10		
3210 D	08	40	39	E 046.76	A	08 10	08 58			08 10	08 58	08 12	08 53
3210 N	09	34	09	W146.61	A	08 58	09 10	08 58	09 09	08 58	09 09		
3210 N	09	34	09	W146.61	A	09 15	09 57	09 15	09 55	09 22	09 57		
3211 D	10	27	53	E 019.96	A	09 57	10 45			09 57	10 45	09 59	10 44
3211 N	11	21	23	W173.43	B/A	10 45	11 44	10 46	11 42	10 45	11 44		
3212 D	12	15	07	W006.86	B	11 44	12 32			11 44	12 32	11 46	12 28
3212 N	13	08	37	E 159.77	A/B	12 32	13 31	12 33	13 30	12 32	13 31		
3213 D	14	02	21	W033.66	A	13 31	14 19			13 31	14 19	13 34	14 15
3213 N	14	55	51	E 132.97	B/A	14 19	15 18	14 20	15 17	14 19	15 18		
3214 D	15	49	35	W060.47	B	15 18	16 07			15 18	16 07	15 21	16 02
3214 N	16	43	05	E 106.15	A/B	16 07	17 05	16 08	17 04	16 07	17 05		
3215 D	17	36	50	W087.28	A	17 05	17 54			17 05	17 53	17 08	17 50
3215 N	18	30	19	E 079.35	B	17 59	18 53	17 54	18 51	17 54	18 53		
3216 D	19	24	04	W114.09	B	18 53	19 41			18 53	19 39	18 55	19 37
3216 N	20	17	34	E 052.53	A	19 41	20 40	19 42	20 39	19 41	20 40		
3217 D	21	11	18	W140.90	A	20 40	21 28			20 40	21 25	20 43	21 24
3217 N	22	04	48	E 025.73	B	21 28	22 27	21 29	22 26	21 28	22 27		
3218 D	22	58	32	W167.70	B	22 27	23 14			22 27	23 13	22 30	23 15
3218 N	23	52	02	W001.09									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 4 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3219 D	00	45	46	E 165.48	A	00 29	01 03			00 29	01 03	00 31	01 02
3219 N	01	39	16	W027.89	A	01 03	02 02	01 04	02 01	01 03	02 02		
3220 D	02	33	00	E 138.68	A/B	02 02	02 50			02 02	02 50	02 04	02 46
3220 N	03	26	30	W054.71	B	02 50	03 34	02 51	03 48	02 50	03 49		
3221 D	04	20	14	E 111.86	B					03 49	04 29	03 51	04 29
3221 N	05	13	44	W081.51	B	05 21	05 36	05 04	05 34	05 04	05 36		
3222 D	06	07	28	E 085.06	B	05 36	06 25			05 36	06 25	05 39	06 20
3222 N	07	00	58	W108.32	A/B	06 25	07 23	06 25	07 22	06 25	07 23		
3223 D	07	54	42	E 058.24	A	07 23	08 12			07 23	08 12	07 26	08 11
3223 N	08	48	12	W135.13	B/A	08 12	09 11	08 12	09 09	08 12	09 11		
3224 D	09	41	56	E 031.44	B	09 11	09 59			09 11	09 59	09 13	09 55
3224 N	10	35	26	W161.94	A/B	09 59	10 58	10 00	10 56	09 59	10 58		
3225 D	11	29	10	E 004.62	A	10 58	11 46			10 58	11 46	11 00	11 42
3225 N	12	22	40	E 171.26	A	11 46	11 57	11 47	11 56	11 46	11 56		
3225 N	12	22	40	E 171.26	B	12 09	12 45	11 58	12 42	11 58	12 45		
3226 D	13	16	24	W022.18	B	12 45	13 33			12 45	13 33	12 48	13 29
3226 N	14	09	54	E 144.44	B	13 33	14 32	13 34	13 42	13 33	13 41		
3226 N	14	09	54	E 144.44	A			13 44	14 30	13 44	14 30		
3227 D	15	03	39	W049.00	A	14 32	15 21			14 32	15 21	14 35	15 16
3227 N	15	57	08	E 117.64	B/A	15 21	16 19	15 21	16 18	15 21	16 19		
3228 D	16	50	53	W075.80	B	16 19	17 09			16 19	17 08	16 22	17 07
3228 N	17	44	22	E 090.82	A	17 10	18 07	17 11	18 04	17 11	18 07		
3229 D	18	38	07	W102.61	A	18 07	18 55			18 07	18 52	18 09	18 51
3229 N	19	31	37	E 064.02	B	18 55	19 54	18 55	19 53	18 55	19 54		
3230 D	20	25	21	W129.42	B	19 54	20 42			19 54	20 42	19 57	20 38
3230 N	21	18	51	E 037.21	A	20 48	21 41	20 49	21 38	20 49	21 41		
3231 D	22	12	35	W156.22	A	21 41	22 26			21 41	22 26	21 44	22 29
3231 N	23	06	05	E 010.40									
3232 D	23	59	49	E 176.96	A	23 45	00 17			23 46	00 17	23 48	00 16
3232 N	00	53	19	W016.41	A	00 17	01 16	00 17	01 14	00 17	01 16		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 5 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3233 D	01	47	03	E 150.16	A/B	01 16	02 04			01 16	02 04	01 18	02 00
3233 N	02	40	33	W043.22	B	02 04	03 03	02 05	03 01	02 04	03 03		
3234 D	03	34	17	E 123.34	B	03 03	03 22			03 03	03 47	03 05	03 43
3234 N	04	27	47	W070.02	B			04 21	04 46	04 21	04 50		
3235 D	05	21	31	E 096.54	B					04 50	05 39	04 52	05 38
3235 N	06	15	01	W096.84	B			05 39	05 57	05 39	05 56		
3235 N	06	15	01	W096.84	B			06 04	06 36	06 04	06 37		
3236 D	07	08	45	E 069.72	B					06 37	07 26	06 40	07 25
3236 N	08	02	15	W123.64	A/B	07 41	08 25	07 26	08 24	07 26	08 25		
3237 D	08	55	59	E 042.92	A	08 25	09 13			08 25	09 13	08 27	09 09
3237 N	09	49	29	W150.46	A	09 13	09 24	09 14	09 23	09 13	09 24		
3237 N	09	49	29	W150.46	A	09 30	10 12	09 30	10 10	09 30	10 12		
3238 D	10	43	13	E 016.11	A	10 12	11 00			10 12	11 00	10 14	10 59
3238 N	11	36	43	W177.26	B/A	11 00	11 59	11 00	11 58	11 00	11 59		
3239 D	12	30	28	W010.70	B					11 59	12 47	12 01	12 46
3239 N	13	23	57	E 155.92	A/B	12 53	13 46	12 48	13 43	12 47	13 46		
3240 D	14	17	42	W037.51	A	13 46	14 35			13 46	14 35	13 49	14 30
3240 N	15	11	11	E 129.12	B/A	14 35	15 33	14 42	15 32	14 35	15 33		
3241 D	16	04	56	W064.31	B	15 33	16 22			15 33	16 22	15 36	16 17
3241 N	16	58	26	E 102.34	A	16 22	17 21	16 25	17 19	16 25	17 21		
3242 D	17	52	10	W091.13	A	17 21	18 09			17 21	18 09	17 23	18 05
3242 N	18	45	40	E 075.50	B	18 09	19 08	18 11	19 06	18 11	19 08		
3243 D	19	39	24	W117.93	B	19 08	19 56			19 08	19 50	19 10	19 52
3243 N	20	32	54	E 048.68	A	19 56	20 55	19 57	20 54	19 56	20 55		
3244 D	21	26	38	W144.75	A	20 55	21 44			20 55	21 44	20 58	21 39
3244 N	22	20	08	E 021.88									
3245 D	23	13	52	W171.55									
3245N	00	07	22	W004.94									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 6 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3246 D	01	01	06	E 161.63	A	00 43	01 18			00 44	01 18	00 46	01 17
3246 N	01	54	36	W031.74	A	01 18	02 17	01 19	02 15	01 18	02 17		
3247 D	02	48	20	E 134.83	A/B	02 17	03 05			02 17	03 05	02 19	03 05
3247 N	03	41	50	W058.54	B	03 05	03 54	03 06	04 03	03 05	04 04		
3248 D	04	35	34	E 108.01	B					04 04	04 45	04 07	04 45
3248 N	05	29	04	W085.36	B			05 20	05 50	05 20	05 51		
3249 D	06	22	48	E 081.21	B					05 51	06 40	05 54	06 39
3249 N	07	16	18	E 112.16	A/B	07 06	07 39	06 40	07 38	06 40	07 39		
3250 D	08	10	02	E 054.41	A	07 39	08 27			07 39	08 27	07 41	08 23
3250 N	09	03	32	W138.98	B/A	08 27	09 26	08 27	09 25	08 27	09 26		
3251 D	09	57	17	E 027.59	B	09 26	10 14			09 26	10 14	09 28	10 10
3251 N	10	50	46	W165.78	A/B	10 14	11 13	10 15	11 12	10 14	11 13		
3252 D	11	44	31	E 000.79	A	11 13	12 02			11 13	12 02	11 15	11 57
3252 N	12	38	00	E 167.41	B/A	12 02	13 00	12 02	12 58	12 02	13 00		
3253 D	13	31	45	W026.03	B	13 00	13 49			13 00	13 49	13 03	13 48
3253 N	14	25	14	E 140.60	A/B	13 49	14 47	13 49	14 46	13 49	14 47		
3254 D	15	18	59	W052.83	A	14 47	15 36			14 47	15 36	14 50	15 31
3254 N	16	12	29	E 113.79	B	15 36	16 35	15 43	16 34	15 43	16 35		
3255 D	17	06	13	W079.65	B	16 35	17 23			16 35	17 23	16 37	17 22
3255 N	17	59	43	E 086.98	A	17 23	18 22	17 27	18 18	17 27	18 22		
3256 D	18	53	27	W106.45	A	18 22	19 10			18 22	19 07	18 24	19 06
3256 N	19	46	57	E 060.17	B	19 10	20 09	19 10	20 08	19 10	20 09		
3257 D	20	40	41	W133.27	B	20 09	20 58			20 09	20 57	20 12	20 53
3257 N	21	34	11	E 033.36	A	20 58	21 56	20 58	21 54	20 58	21 56		
3258 D	22	27	55	W160.07	A	21 56	22 46			21 56	22 45	21 59	22 40
3258 N	23	21	25	E 006.55									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 7 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3259 D	00	15	09	E 173.11	A	23 59	00 32			00 00	00 32	00 00	00 31
3259 N	01	08	39	W020.25	A	00 32	01 31	00 33	01 29	00 32	01 31		
3260 D	02	02	23	E 146.31	A/B	01 31	02 19			01 31	02 19	01 33	02 11
3260 N	02	55	53	W047.07	B	02 19	03 18	02 20	03 16	02 19	03 18		
3261 D	03	49	37	E 119.50	B	03 18	03 35			03 18	04 01	03 20	03 59
3261 N	04	43	07	W073.87	B			04 37	05 03	04 37	05 05		
3262 D	05	36	51	E 092.69	B					05 05	05 54	05 08	05 53
3262 N	06	30	21	W100.69	B	06 25	06 53	05 54	06 12	05 54	06 12		
3262 N	06	30	21	W100.69	B			06 19	06 52	06 19	06 53		
3263 D	07	24	06	E 065.88	B	06 53	07 41			06 53	07 41	06 55	07 40
3263 N	08	17	35	W127.49	A/B	07 41	08 40	07 42	08 38	07 41	08 40		
3264 D	09	11	20	E 039.07	A	08 40	09 28			08 40	09 28	08 42	09 24
3264 N	10	04	49	W154.29	B/A	09 28	10 27	09 29	10 25	09 28	10 27		
3265 D	10	58	34	E 012.26	B	10 27	11 16			10 27	11 16	10 29	11 11
3265 N	11	52	03	E 178.89	A/B	11 16	12 14	11 16	12 12	11 16	12 14		
3266 D	12	45	48	W014.54	A	12 14	13 03			12 14	13 03	12 17	12 58
3266 N	13	39	18	E 152.09	B/A	13 03	14 01	13 04	14 00	13 03	14 01		
3267 D	14	33	02	W041.35	B	14 01	14 50			14 01	14 50	14 04	14 46
3267 N	15	26	32	E 125.27	A/B	14 50	15 49	14 57	15 48	14 50	15 49		
3268 D	16	20	16	W068.17	A	15 49	16 37			15 49	16 37	15 51	16 36
3268 N	17	13	46	E 098.47	B	16 37	17 36	16 42	17 34	16 42	17 36		
3269 D	18	07	30	W094.97	B	17 36	18 24			17 36	18 23	17 39	18 20
3269 N	19	01	00	E 071.65	A	18 24	19 23	18 25	19 20	18 24	19 23		
3270 D	19	54	44	W121.78	A	19 23	20 09			19 23	20 08	19 26	20 07
3270 N	20	48	14	E 044.85	B			20 12	21 08	20 12	21 10		
3271 D	21	41	58	W148.59	B	21 51	21 58			21 10	21 58	21 13	21 55
3271 N	22	35	28	E 018.03									
3272 D	23	29	12	W175.40									
3272 N	00	22	42	W008.77									



**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 8 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3273 D	01	16	26	E 157.80	A	00 58	01 33			00 58	01 33	00 58	01 32
3273 N	02	09	56	W035.59	A	01 33	02 32	01 34	02 28	01 33	02 32		
3274 D	03	03	40	E 130.98	A/B	02 32	02 50			02 32	03 21	02 35	03 16
3274 N	03	57	10	W062.39	B			03 21	04 17	03 21	04 19		
3275 D	04	50	55	E 104.18	B					04 19	04 59	04 22	05 00
3275 N	05	44	24	W089.21	B			05 34	06 03	05 34	06 07		
3276 D	06	38	09	E 077.36	B					06 07	06 55	06 09	06 51
3276 N	07	31	38	W116.01	B	07 23	07 54	06 56	07 13	06 55	07 15		
3276 N	07	31	38	W116.01	A			07 18	07 50	07 18	07 54		
3277 D	08	25	23	E 050.56	A	07 54	08 42			07 54	08 42	07 56	08 41
3277 N	09	18	52	W142.82	B/A	08 42	09 41	08 43	09 39	08 42	09 41		
3278 D	10	12	37	E 023.74	B	09 41	10 30			09 41	10 30	09 44	10 25
3278 N	11	06	06	W169.63	A/B	10 30	11 28	10 30	11 27	10 30	11 16		
3279 D	11	59	51	W003.06	A	11 28	12 17					11 31	12 16
3279 N	12	53	21	E 163.56	B/A	12 17	13 16	12 18	13 14	12 30	13 16		
3280 D	13	47	05	W029.88	B	13 16	14 04			13 16	14 04	13 18	14 00
3280 N	14	40	35	E 136.75	B	14 04	14 15	14 05	14 13	14 04	14 12		
3280 N	14	40	35	E 136.75	A	14 34	15 03	14 13	15 01	14 13	15 03		
3281 D	15	34	19	W056.68	A	15 03	15 51			15 03	15 51	15 05	15 44
3281 N	16	27	49	E 109.95	B/A	15 51	16 50	15 57	16 48	15 51	16 50		
3282 D	17	21	33	W083.50	B	16 50	17 38			16 50	17 38	16 53	17 34
3282 N	18	15	03	E 083.14	A	17 38	18 37	17 40	18 34	17 40	18 37		
3283 D	19	08	47	W110.30	A	18 37	19 26			18 37	19 24	18 40	19 21
3283 N	20	02	17	E 056.33	B	19 26	20 24	19 26	20 23	19 26	20 24		
3284 D	20	56	01	W137.10	B	20 24	21 13			20 24	21 11	20 27	21 08
3284 N	21	49	31	E 029.52	A	21 13	22 12	21 14	22 10	21 13	22 12		
3285 D	22	43	15	W163.92	A	22 12	22 59			22 12	22 59	22 14	22 56
3285 N	23	36	45	E 002.71									

TABLE 2-2  
SENSOR ON – OFF TIMES  
DATE 9 DECEMBER 1970

DATA ORBIT	ASCEND/DESCEND NODE				HDS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			DEG	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3286 D	00	30	29	E 169.28	A	00 14	00 47			00 14	00 47	00 15	00 47
3286 N	01	23	59	W024.10	A	00 47	01 46	00 48	01 44	00 47	01 46		
3287 D	02	17	44	E 142.46	A/B	01 46	02 35			01 46	02 35	01 49	02 34
3287 N	03	11	13	W050.91	B	02 35	03 33	02 35	03 30	02 35	03 33		
3288 D	04	04	58	E 115.66	B	03 33	03 52			03 33	04 16	03 36	04 14
3288 N	04	58	27	W077.72	B			04 50	05 17	04 50	05 21		
3289 D	05	52	12	E 088.84	B					05 21	06 09	05 23	06 08
3289 N	06	45	41	W104.53	A/B	06 36	07 08	06 10	07 07	06 09	07 08		
3290 D	07	39	26	E 062.04	A	07 08	07 56			07 08	07 56	07 10	07 52
3290 N	08	32	55	W131.34	B/A	07 56	08 55	07 57	08 53	07 56	08 55		
3291 D	09	26	40	E 035.23	B	08 55	09 44			08 55	09 44	08 58	09 39
3291 N	10	20	09	W158.14	A/B	09 44	10 42	09 44	10 40	09 44	10 42		
3292 D	11	13	54	E 008.42	A	10 42	11 31			10 42	11 31	10 45	11 26
3292 N	12	07	24	E 175.04	B/A	11 31	12 30	11 32	12 28	11 31	12 30		
3293 D	13	01	08	W018.39	B	12 30	13 18			12 30	13 18	12 32	13 14
3293 N	13	54	38	E 148.24	A/B	13 18	14 17	13 19	14 15	13 29	14 17		
3294 D	14	48	22	W045.17	A	14 17	15 05			14 17	15 05	14 19	15 01
3294 N	15	41	52	E 121.45	B/A	15 05	16 04	15 13	16 03	15 05	16 04		
3295 D	16	35	36	W071.99	B	16 04	16 52			16 04	16 52	16 06	16 48
3295 N	17	29	06	E 094.64	A	16 52	17 51	16 56	17 44	16 56	17 51		
3296 D	18	22	50	W098.80	A	17 51	18 40			17 51	18 39	17 54	18 35
3296 N	19	16	20	E 067.81	B	18 40	19 38	18 40	19 36	18 40	19 38		
3297 D	20	10	04	W125.63	B	19 38	20 27			19 38	20 26	19 41	20 23
3297 N	21	03	34	E 041.00	A	20 27	21 26	20 29	21 24	20 27	21 26		
3298 D	21	57	18	W152.40	A	21 26	22 15			21 26	22 14	21 28	22 13
3298 N	22	50	48	E 014.22									
3299 D	23	44	32	W179.23	A	23 31	00 01			23 31	00 01	23 33	23 57
3299 N	00	38	02	W012.60	A	00 01	01 00	00 02	00 56	00 01	01 00		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 10 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3300 D	01	31	47	E 153.96	A/B	01 00	01 49			01 00	01 49	01 03	01 44
3300 N	02	25	16	W039.41	B	01 49	02 47	01 49	02 46	01 49	02 47		
3301 D	03	19	01	E 127.15	B	02 47	03 07			02 47	03 32	02 50	03 28
3301 N	04	12	30	W066.24	B			04 07	04 32	04 07	04 35		
3302 D	05	06	15	E 100.36	B					04 35	05 23	04 37	05 19
3302 N	05	59	44	W093.01	B			05 24	05 42	05 23	05 42		
3302 N	05	59	44	W093.01	B			05 48	06 20	05 48	06 22		
3303 D	06	53	29	E 073.55	B					06 22	07 10	06 24	07 06
3303 N	07	46	58	W119.84	A/B	07 35	08 09	07 11	08 07	07 10	08 09		
3304 D	08	40	43	E 046.72	A	08 09	08 58			08 09	08 58	08 12	08 53
3304 N	09	34	13	W146.65	A	08 58	09 10	08 58	09 08	08 58	09 09		
3304 N	09	34	13	W146.65	A	09 15	09 56	09 15	09 54	09 15	09 56		
3305 D	10	27	57	E 019.91	A	09 56	10 45			09 56	10 45	09 59	10 40
3305 N	11	21	27	W173.47	A	10 45	10 56	10 46	10 54	10 45	10 58		
3305 N	11	21	27	W173.47	B	10 58	11 44	10 59	11 42	10 59	11 44		
3306 D	12	15	11	W006.88	B	11 44	12 32			11 44	12 32	11 46	12 31
3306 N	13	08	41	E 159.75	A/B	12 32	13 31	12 33	13 28	12 32	13 31		
3307 D	14	02	25	W033.69	A	13 31	14 19			13 31	14 19	13 33	14 15
3307 N	14	55	55	E 132.93	B/A	14 19	15 18	14 20	15 17	14 19	15 18		
3308 D	15	49	39	W060.51	B	15 18	16 06			15 18	16 06	15 20	16 05
3308 N	16	43	09	E 106.11	A/B	16 06	17 05	16 13	17 03	16 06	17 05		
3309 D	17	36	53	W087.33	A	17 05	17 54			17 05	17 54	17 08	17 49
3309 N	18	30	23	E 079.29	B	17 54	18 52	17 56	18 52	17 56	18 52		
3310 D	19	24	07	W114.11	B	18 52	19 41			18 52	19 40	18 55	19 37
3310 N	20	17	37	E 052.51	A	19 41	20 40	19 42	20 37	19 41	20 40		
3311 D	21	11	21	W140.93	A	20 40	21 28			20 40	21 27	20 42	21 27
3311 N	22	04	51	E 025.69	B	21 29	22 27	21 29	22 25	21 29	22 27		
3312 D	22	58	36	W167.75	B	22 27	23 14			22 27	23 13	22 29	23 11
3312 N	23	52	05	W001.12	A	00 09	00 14			00 09	00 14		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 11 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3313 D	00	45	50	E 165.44	A	00 14	01 03			00 14	01 03	00 17	00 58
3313 N	01	39	19	W027.95	A	01 03	02 01	01 03	02 00	01 03	02 01		
3314 D	02	33	04	E 138.65	A	02 01	02 12			02 01	02 11		
3314 D	02	33	04	E 138.65	B					02 29	02 50	02 32	02 45
3314 N	03	26	33	W054.72	B			02 51	03 48	02 50	03 49		
3315 D	04	20	18	E 111.84	B					03 49	04 30	03 51	04 29
3315 N	05	13	47	W081.54	B			05 04	05 34	05 04	05 36		
3316 D	06	07	32	E 085.01	B					05 36	06 24	05 38	06 23
3316 N	07	01	01	W108.36	A/B	06 52	07 23	06 25	07 22	06 24	07 23		
3317 D	07	54	46	E 058.20	A	07 23	08 12			07 23	08 12	07 26	08 11
3317 N	08	48	16	W135.17	B/A	08 12	09 10	08 13	09 08	08 12	09 10		
3318 D	09	42	00	E 031.39	B	09 10	09 59			09 10	09 59	09 13	09 58
3318 N	10	35	30	W161.96	B	09 59	10 11	10 00	10 09	09 59	10 11		
3318 N	10	35	30	W161.96	A	10 13	10 58	10 13	10 55	10 13	10 58		
3319 D	11	29	14	E 004.60	A	10 58	11 46			10 58	11 46	11 00	11 45
3319 N	12	22	44	E 171.23	B/A	11 46	12 45	11 47	12 41	11 46	12 45		
3320 D	13	16	28	W022.21	B	12 45	13 33			12 45	13 33	12 47	13 32
3320 N	14	09	58	E 144.40	A/B	13 33	14 32	13 34	14 32	13 33	13 44		
3321 D	15	03	42	W049.04		14 32	15 21					14 34	15 16
3321 N	15	57	12	E 117.59	B	15 21	16 19	15 28	16 18	15 28	16 19		
3322 D	16	50	56	W075.85	B	16 19	17 08			16 19	17 08	16 22	17 03
3322 N	17	44	26	E 090.80	A	17 08	18 06	17 14	18 06	17 14	18 06		
3323 D	18	38	10	W102.64	A	18 06	18 55			18 06	18 53	18 09	18 50
3323 N	19	31	40	E 063.99	B	18 55	19 54	18 55	19 53	18 55	19 54		
3324 D	20	25	24	W129.45	B	19 54	20 42			19 54	20 41	19 56	20 41
3324 N	21	18	54	E 037.16	A	20 42	21 41	20 43	21 40				
3325 D	22	12	39	W156.27	A	21 41	22 29			21 54	22 28	21 50	22 28
3325 N	23	06	08	E 010.35									
3326 D	23	59	53	E 176.91	A	23 45	00 17			23 46	00 17	23 48	00 12
3326 N	00	53	22	W016.44	A	00 17	01 15	00 17	01 14	00 17	01 15		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 12 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3327 D	01	47	07	E 150.12	A/B	01 15	02 04			01 15	02 04	01 18	01 59
3327 N	02	40	36	W043.25	B	02 04	03 03	02 05	02 57	02 04	03 03		
3328 D	03	34	21	E 123.31	B	03 03	03 21			03 03	03 48	03 05	03 47
3328 N	04	27	50	W070.07	B			04 21	04 48	04 21	04 50		
3329 D	05	21	35	E 096.49	B					04 50	05 38	04 52	05 34
3329 N	06	15	04	W096.88	B			05 39	05 57	05 38	05 56		
3329 N	06	15	04	W096.88	B			06 03	06 36	06 03	06 37		
3330 D	07	08	49	E 069.68	B					06 37	07 26	06 39	07 21
3330 N	08	02	19	W123.67	A/B	07 45	08 24	07 27	08 24	07 26	08 24		
3331 D	08	56	03	E 042.89	A	08 24	09 13			08 24	09 13	08 27	09 08
3331 N	09	49	33	W150.49	B/A	09 13	10 12	09 14	10 10	09 13	10 12		
3332 D	10	43	17	E 016.08	B	10 12	11 00			10 12	11 00	10 14	10 55
3332 N	11	36	47	W177.30	A/B	11 00	11 59	11 01	11 58	11 00	11 59		
3333 D	12	30	31	W010.75	A	11 59	12 47			11 59	12 47	12 01	12 43
3333 N	13	24	01	E 155.88	A	12 47	12 57	12 48	12 55				
3333 N	13	24	01	E 155.88	A	13 03	13 46	13 03	13 45	13 03	13 46		
3334 D	14	17	45	W037.56	A	13 46	14 35			13 46	14 35	13 48	14 34
3334 N	15	11	15	E 129.10	A	14 35	14 44	14 36	14 44	14 35	14 43		
3334 N	15	11	15	E 129.10	B	14 44	15 33	14 45	15 34	15 21	15 33		
3335 D	16	04	59	W064.34	B	15 33	16 22	15 34	16 22	15 33	16 22		
3335 N	16	58	29	E 102.28	B	16 22	16 26						
3335 N	16	58	29	E 102.28	B	16 32	17 21	16 32	17 21	16 32	17 21		
3336 D	17	53	13	W091.16	B	17 21	18 09	17 22	18 09	17 21	18 09		
3336 N	18	45	43	E 075.47	A	18 09	19 08	18 11	19 06	18 11	19 08		
3337 D	19	39	28	W117.97	A	19 08	19 56			19 08	19 55	19 10	19 52
3337 N	20	32	57	E 048.64	B	19 56	20 55	19 56	20 55	19 56	20 55		
3338 D	21	26	42	W144.80	B	20 55	21 42			20 55	21 41	20 57	21 39
3338 N	22	20	11	E 021.87									
3339 D	23	13	56	W171.57									
3339 N	00	07	25	W004.96									

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 13 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3340 D	01	01	10	E 161.60	A	00 43	01 18			00 44	01 18	00 46	01 13
3340 N	01	54	39	W031.77	A	01 18	01 34	01 19	02 15	01 18	02 17		
3341 D	02	48	24	E 134.79	A/B					02 17	03 05	02 19	03 04
3341 N	03	41	53	W058.60	B			03 06	04 02	03 05	04 04		
3342 D	04	35	38	E 107.96	B					04 04	04 45	04 06	04 44
3342 N	05	29	07	W085.37	B			05 20	05 49	05 20	05 51		
3343 D	06	22	52	E 081.19	B					05 51	06 40	05 54	06 35
3343 N	07	16	22	W112.20	A/B	07 06	07 38	06 40	07 36	06 40	07 38		
3344 D	08	10	06	E 054.36	A	07 38	08 27			07 38	08 27	07 41	08 22
3344 N	09	03	36	W139.01	B/A	08 27	09 26	08 28	09 25	08 27	09 26		
3345 D	09	57	20	E 027.55	B	09 26	10 14			09 26	10 14	09 28	10 10
3345 N	10	50	50	W165.83	A/B	10 14	11 13	10 15	11 11	10 14	10 26		
3346 D	11	44	34	E 000.73	A	11 13	12 01					11 15	11 57
3346 N	12	38	04	F 167.35	B/A	12 01	13 00	12 02	12 59	12 13	13 00		
3347 D	13	31	48	W026.05	B	13 00	13 49			13 00	13 49	13 02	13 44
3347 N	14	25	18	E 140.57	B	13 49	14 47	13 50	13 59	13 49	13 59		
3347 N	14	25	18	E 140.57	A			13 59	14 45	14 30	14 47		
3348 D	15	19	02	W052.87	A	14 47	15 36			14 47	15 36	14 50	15 31
3348 N	16	12	32	E 113.75	B/A	15 36	16 35	15 43	16 34	15 36	16 35		
3349 D	17	06	16	W079.60	B	16 35	17 23			16 35	17 23	16 37	17 22
3349 N	17	59	46	E 086.94	A	17 23	18 22	17 27	18 20	17 28	18 22		
3350 D	18	53	31	W106.51	A	18 22	19 10			18 22	19 10	18 24	19 06
3350 N	19	47	00	E 060.12	B	19 10	20 09	19 10	20 09	19 10	20 09		
3351 D	20	40	45	W133.29	B	20 09	20 58			20 09	20 55	20 11	20 53
3351 N	21	34	14	E 033.34	A	20 58	21 56	20 58	21 55				
3352 D	22	27	59	W160.10	A	21 56	22 43					21 59	22 40
3352 N	23	21	28	E 006.52									

**TABLE 2-2**  
**SENSOR ON - OFF TIMES**  
**DATE 14 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3353 D	00	15	13	E 173.08	A					00 00	00 32	00 00	00 31
3353 N	01	08	42	W020.29	A			00 33	01 29	00 32	01 31		
3354 D	02	02	27	E 146.27	A/B					01 31	02 19	01 33	02 15
3354 N	02	55	56	W047.12	B			02 20	03 16	02 19	03 18		
3355 D	03	49	41	E 119.48	B					03 18	04 01	03 20	03 58
3355 N	04	43	10	W073.90	B			04 36	05 03	04 36	05 05		
3356 D	05	36	55	E 092.67	B					05 05	05 54	05 08	05 49
3356 N	06	30	25	W100.72	B			05 54	06 13	05 54	06 13		
3356 N	06	30	25	W100.72	A			06 25	06 51	06 25	06 52		
3357 D	07	24	09	E 065.84	A	07 36	07 41			06 52	07 41	06 55	07 36
3357 N	08	17	39	W127.53	B/A	07 41	08 40	07 42	08 40	07 41	08 40		
3358 D	09	11	23	E 039.03	B	08 40	09 28			08 40	09 28	08 42	09 24
3358 N	10	04	53	W154.36	B	09 28	09 40	09 29	09 39	09 28	09 40		
3358 N	10	04	53	W154.36	A	09 50	10 27	09 50	10 26	09 50	10 27		
3359 D	10	58	37	E 012.24	A	10 27	11 15			10 27	11 15	10 29	11 11
3359 N	11	52	07	E 178.87	B/A	11 15	12 14	11 16	12 13	11 15	12 14		
3360 D	12	45	51	W014.57	B	12 14	13 02			12 14	13 03	12 16	12 58
3360 N	13	39	21	E 152.04	A/B	13 30	13 14	13 04	14 00	13 03	14 01		
3361 D	14	33	05	W041.40	A	14 15	14 50			14 01	14 50	14 04	14 49
3361 N	15	26	35	E 125.23	B/A	14 50	15 49	14 58	15 47	14 50	15 49		
3362 D	16	20	19	W068.21	B	15 49	16 37			15 49	16 37	15 51	16 33
3362 N	17	73	49	E 098.41	A	16 37	16 42	16 42	17 34	16 42	17 36		
3363 D	18	07	34	W095.00	A	17 49	18 24			17 36	18 24	17 38	18 20
3363 N	19	01	03	E 071.63	B	18 24	18 27	18 45	19 21	18 24	19 23		
3364 D	19	54	48	W121.81	B	20 00	20 12			19 23	20 09	19 25	20 10
3364 N	20	48	17	E 044.82	A	20 12	21 10	20 12	21 10	20 44	21 10		
3365 D	21	42	02	W148.63	A	21 10	22 00			21 10	21 58	21 13	21 58
3365 N	22	35	31	E 017.99									
3366 D	23	29	16	W175.45									
3366 N	00	22	45	W008.82	A			00 01	00 43	00 02	00 45		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 15 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3367 D	01	16	30	E 157.77	A					00 45	01 33	00 47	01 32
3367 N	02	09	59	W035.60	A			01 34	02 02	01 33	02 03		
3368 D	03	03	44	E 130.96	B					02 58	03 20	02 59	03 16
3368 N	03	57	14	W062.41	B			03 21	04 18	03 20	04 19		
3369 D	04	50	58	E 104.15	B					04 19	04 59	04 22	04 56
3369 N	05	44	28	W089.24	B			05 35	06 05	05 34	06 06		
3370 D	06	38	12	E 077.33	B					06 06	06 55	06 09	06 54
3370 N	07	31	42	W116.05	A/B			06 56	07 53	06 55	07 54		
3371 D	08	25	26	E 050.55	A					07 54	08 42	07 56	08 41
3371 N	09	18	56	W142.84	B/A	09 06	09 41	08 43	09 40	08 42	09 41		
3372 D	10	12	40	E 023.73	B	09 41	10 29			09 41	10 29	09 43	10 25
3372 N	11	06	10	W169.65	A/B	10 29	11 28	10 30	11 26	10 29	11 14		
3373 D	11	59	54	W003.09		11 28	12 17					11 30	12 16
3373 N	12	53	24	E 163.53	B/A	12 17	13 15	12 18	13 15	12 29	13 15		
3374 D	13	47	08	W029.91	B	13 15	14 04			13 15	14 04	13 18	13 59
3374 N	14	40	38	E 136.72	A/B	14 04	15 03	14 05	15 02	14 04	15 03		
3375 D	15	34	22	W056.69	A	15 03	15 51			15 03	15 51	15 05	15 50
3375 N	16	27	52	E 109.93	A	15 51	15 58	15 52	15 57	15 51	15 57		
3375 N	16	27	52	E 109.93	B	16 02	16 50	15 57	16 49	15 57	16 50		
3376 D	17	21	37	W083.51	B	16 50	17 38			16 50	17 38	16 52	17 34
3376 N	18	15	06	E 083.12	A	17 38	18 37	17 41	18 36	17 41	18 37		
3377 D	19	08	51	W110.32	A	18 37	19 26			18 37	19 25	18 40	19 24
3377 N	20	02	20	E 056.29	B	19 26	20 24	19 26	20 24	19 26	20 24		
3378 D	20	56	05	W137.15	B	20 24	21 13			20 24	21 12	20 27	21 08
3378 N	21	49	34	E 029.48	A	21 13	22 12	21 14	22 12	21 13	22 12		
3379 D	22	43	19	W163.92	A	22 12	23 00			22 12	22 59	22 14	22 56
3379 N	23	36	48	E 002.69	A			23 17	23 58	23 17	23 59		



**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 16 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3380 D	00	30	33	E 169.25	A					23 59	00 47	00 01	00 43
3380 N	01	24	02	W024.12	A			00 48	01 19	00 47	01 19		
3381 D	02	17	47	E 142.44	B					02 14	02 34	02 16	02 30
3381 N	03	11	16	W050.93	B			02 35	03 32	02 34	03 33		
3382 D	04	05	01	E 115.61	B					03 33	04 15	03 36	04 14
3382 N	04	58	31	W077.76	B			04 50	05 19	04 50	05 20		
3383 D	05	52	15	E 088.80	B					05 20	06 09	05 23	06 08
3383 N	06	45	45	W104.53	B	06 36	06 30	06 10	06 28	06 09	06 29		
3383 N	06	45	45	W104.53	A	06 30	07 08	06 31	07 07	06 31	07 08		
3384 D	07	39	29	E 062.01	A	07 08	07 56			07 08	07 56	07 10	07 55
3384 N	08	32	59	W131.36	B/A	07 56	08 55	07 57	08 54	07 56	08 55		
3385 D	09	26	43	E 035.20	B	08 55	09 43			08 55	09 43	09 01	09 39
3385 N	10	20	13	W158.17	A/B	09 43	10 42	09 44	10 40	09 43	10 42		
3386 D	11	13	57	E 008.39	A	10 42	11 31			10 42	11 31	10 44	11 26
3386 N	12	07	27	E 175.00	B/A	11 31	12 29	11 32	12 29	11 31	12 29		
3387 D	13	01	11	W018.44	B	12 29	13 18			12 29	13 18	12 32	13 13
3387 N	13	54	41	E 148.23	A/B	13 18	14 17	13 19	14 16	13 18	14 17		
3388 D	14	48	25	W045.21	A	14 17	15 05			14 17	15 05	14 19	15 00
3388 N	15	41	55	E 121.40	B/A	15 05	16 04	15 06	16 03	15 05	16 04		
3389 D	16	35	39	W072.04	B	16 04	16 52			16 04	16 52	16 06	16 48
3389 N	17	29	09	E 094.59	A/B	16 52	17 51	16 53	17 50	16 52	17 51		
3390 D	18	22	54	W098.85	A	17 51	18 40			17 51	18 40	17 53	18 39
3390 N	19	16	23	E 067.77	B	18 40	19 38	18 40	19 38	18 40	19 38		
3391 D	20	10	08	W125.67	B	19 38	20 27			19 38	20 26	19 41	20 22
3391 N	21	03	37	E 040.99	A	20 27	21 26	20 28	21 22	20 27	21 26		
3392 D	21	57	21	W152.45	A	21 26	22 14			21 26	22 13	21 28	22 13
3392 N	22	50	51	E 014.17									
3393 D	23	44	36	W179.27									
3393 N	00	38	05	W012.65	A			00 31	00 36	00 16	01 00		
3393N	00	38	05	W012.65	A			00 47	00 58				

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 17 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3394 D	01	31	50	E 153.91	A					01 00	01 49	01 02	01 47
3394 N	02	25	19	W039.47	A			01 49	02 15	01 49	02 18		
3395 D	03	19	04	E 127.09	B					02 47	03 36	02 50	03 31
3395 N	04	12	33	W066.25	B			03 37	04 33	03 36	04 35		
3396 D	05	06	18	E 100.31	B					04 35	04 47		
3396 N	05	59	48	W093.07	B	05 51	06 22	05 49	06 20	05 49	06 22		
3397 D	06	53	32	E 073.49	B	06 22	07 10			06 22	07 10	06 24	07 06
3397 N	07	47	02	W119.88	A/B	07 10	08 09	07 11	08 08	07 10	08 09		
3398 D	08	40	46	E 046.68	A	08 09	08 57			08 09	08 57	08 11	08 56
3398 N	09	34	16	W146.69	B/A	08 57	09 56	08 58	09 56	08 57	09 56		
3399 D	10	28	00	E 019.85	B	09 56	10 45			09 56	10 45	09 59	10 40
3399 N	11	21	30	W173.48	A/B	10 45	11 43	10 46	11 43	10 45	11 43		
3400 D	12	15	14	W006.92	A	11 43	12 32			11 43	12 32	11 46	12 24
3400 N	13	08	44	E 159.70	B/A	12 32	13 31	12 33	13 28	12 32	13 31		
3401 D	14	02	28	W033.73	B	13 31	14 19			13 31	14 19	13 33	14 15
3401 N	14	55	58	E 132.88	A/B	14 19	15 18	14 20	15 15	14 19	15 18		
3402 D	15	49	42	W060.56	A	15 18	16 06			15 18	16 06	15 20	16 02
3402 N	16	43	12	E 106.07	B/A	16 06	17 05	16 12	17 05	16 06	17 05		
3403 D	17	36	57	W087.37	B	17 05	17 54			17 05	17 54	17 07	17 49
3403 N	18	30	26	E 079.28	A	17 54	18 52	17 56	18 52	17 56	18 52		
3404 D	19	24	11	W114.16	A	18 52	19 41			18 52	19 39	18 55	19 40
3404 N	20	17	40	E 052.47	B	19 41	20 40	19 41	20 38	19 41	20 40		
3405 D	21	11	25	W140.97	B	20 40	21 28			20 40	21 28	20 42	21 24
3405 N	22	04	54	E 025.64	A	21 28	22 27	21 29	22 25	21 29	22 27		
3506 D	22	58	39	W167.80	A	22 27	23 16			22 27	23 15	22 29	23 11
3406 N	23	52	08	W001.17	A			23 28	00 12	23 28	00 14		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 18 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3407 D	00	45	53	E 165.39	A					00 14	01 03	00 16	00 58
3407 N	01	39	22	W027.96	A			01 03	01 29	01 03	01 30		
3408 D	02	33	07	E 138.60	B					02 07	02 50	02 07	02 49
3408 N	03	26	36	W054.77	B			02 51	03 46	02 50	03 49		
3409 D	04	20	21	E 111.79	B					03 49	04 08	03 49	04 05
3409 N	05	13	51	W081.60	B	05 04	05 36	05 04	05 34	05 03	05 36		
3410 D	06	07	35	E 084.97	B	05 36	06 24			05 36	06 24	05 38	06 20
3410 N	07	01	05	W108.41	A/B	06 24	07 23	06 25	07 20	06 24	07 23		
3411 D	07	54	49	E 058.15	A	07 23	08 11			07 23	08 11	07 25	08 07
3411 N	08	48	19	W135.20	A	08 11	08 25	08 12	08 24	08 11	08 25		
3411 N	08	48	19	W135.20	B	08 33	09 10	08 26	09 09	08 26	09 10		
3412 D	09	42	03	E 031.36	B	09 10	09 59			09 10	09 59	09 13	09 54
3412 N	10	35	33	W162.01	A/B	09 59	10 57	10 00	10 54	09 59	10 57		
3413 D	11	29	17	E 004.55	A	10 57	11 46			10 57	11 46	11 00	11 45
3413 N	12	22	47	E 171.18	A	11 46	11 57	11 47	11 57	11 46	11 56		
3413 N	12	22	47	E 171.18	B	12 13	12 45	11 58	12 43	11 58	12 45		
3414 D	13	16	31	W022.27	B	12 45	13 33			12 45	13 33	12 47	13 29
3414 N	14	10	01	E 144.36	B	13 33	14 32	13 34	13 42	13 33	14 46		
3414 N	14	10	01	E 144.36	A			13 46	14 30	13 46	14 32		
3415 D	15	03	46	W049.08	A	14 32	15 20			14 32	15 20	14 34	15 16
3415 N	15	57	15	E 117.58	B/A	15 20	16 19	15 21	16 16	15 20	16 19		
3416 D	16	50	59	W075.87	B	16 19	17 08			16 19	17 08	16 22	17 03
3416 N	17	44	29	E 090.76	A	17 08	18 06	17 12	18 04	17 12	18 06		
3417 D	18	38	14	W102.68	A	18 06	18 55			18 06	18 54	18 09	18 51
3417 N	19	31	43	E 063.94	B	18 55	19 54	18 55	19 51	18 55	19 54		
3418 D	20	25	28	W129.50	B	19 54	20 42			19 54	20 42	19 56	20 38
3418 N	21	18	57	E 037.12	A	20 42	21 41	20 43	21 41				
3419 D	22	12	42	W156.32	A	21 41	22 28					21 43	22 29
3419 N	23	06	11	E 010.31									
3420 D	23	59	56	E 176.90	A					23 46	00 17	23 48	00 16
3420 N	00	53	25	W016.48	A			00 18	01 14	00 17	01 15		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 19 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG°		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3421 D	01	47	10	E 150.08	A/B					01 15	02 04	01 18	01 59
3421 N	02	40	39	W043.29	B			02 05	03 01	02 04	03 03		
3422 D	03	34	24	E 123.27	B					03 03	03 48	03 05	03 43
3422 N	04	27	54	W070.12	B	04 20	04 50	04 21	04 48	04 21	04 50		
3423 D	05	21	38	E 096.44	B	04 50	05 38			04 50	05 38	04 52	05 37
3423 N	06	15	08	W096.63	B	05 38	05 58	05 39	05 58	05 38	05 56		
3423 N	06	15	08	W096.63	B	06 03	06 37	06 04	06 34	06 04	06 37		
3424 D	07	08	52	E 069.67	B	06 37	07 26			06 37	07 26	06 39	07 24
3424 N	08	02	22	W123.72	A/B	07 26	08 24	07 26	08 23	07 26	08 24		
3425 D	08	56	06	E 042.84	A	08 24	09 13			08 24	09 13	08 27	09 12
3425 N	09	49	36	W150.53	A	09 13	09 24	09 14	09 24	09 13	09 24		
3425 N	09	49	36	W150.53	A	09 29	10 12	09 30	10 10	09 30	10 12		
3426 D	10	43	20	E 016.03	A	10 12	11 00			10 12	11 00	10 14	10 59
3426 N	11	36	50	W177.36	B/A	11 00	11 59	11 01	11 57	11 00	11 59		
3427 D	12	30	34	W010.80	B	11 59	12 47			11 59	12 47	12 01	12 46
3427 N	13	24	04	E 155.83	A/B	12 47	13 46	12 48	13 44	12 47	13 46		
3428 D	14	17	48	W037.57	A	13 46	14 34			13 46	14 34	13 48	14 30
3428 N	15	11	18	E 129.04	B/A	14 34	15 33	14 35	15 32	14 34	15 33		
3429 D	16	05	02	W064.40	B	15 33	16 22			15 33	16 22	15 36	16 21
3429 N	16	58	32	E 102.23	A	16 22	17 20	16 28	17 19	16 28	17 20		
3430 D	17	52	17	W091.21	A	17 20	18 09			17 20	18 09	17 23	18 08
3430 N	18	45	46	E 075.42	B	18 09	19 08	18 11	19 08	18 11	19 08		
3431 D	19	39	31	W118.03	B	19 08	19 56			19 08	19 54	19 10	19 52
3431 N	20	33	01	E 048.59	A	19 56	20 55	19 57	20 55	19 56	20 55		
3432 D	21	26	45	W144.81	A	20 55	21 41			20 55	21 40	20 57	21 35
3432 N	22	20	14	E 021.82									
3433 D	23	13	59	W171.62									
3433 N	00	07	28	W005.01	A	23 43	23 48	23 44	00 28	23 44	00 29		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 20 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3434 D	01	01	13	E 161.55	A					00 29	01 18	00 32	01 13
3434 N	01	54	42	W031.82	A			01 19	01 44	01 18	01 44		
3435 D	02	48	27	E 134.74	B	02 41	03 05			02 22	03 05	02 23	03 01
3435 N	03	41	56	W058.64	B	03 05	04 04	03 16	04 01	03 05	04 04		
3436 D	04	35	41	E 107.95	B	04 04	04 24			04 04	04 23	04 06	04 24
3436 N	05	29	11	W085.42	B	05 19	05 51	05 19	05 49	05 19	05 51		
3437 D	06	22	55	E 081.14	B	05 51	06 40			05 51	06 40	05 53	06 35
3437 N	07	16	25	W112.24	B	06 40	06 59	06 40	06 58	06 40	07 00		
3437 N	07	16	25	W112.24	A	07 00	07 38	07 01	07 37	07 01	07 38		
3438 D	08	10	09	E 054.32	A	07 38	08 27			07 38	08 27	07 41	08 22
3438 N	09	03	39	W139.06	A	08 27	08 42	08 28	09 37	08 27	08 41		
3438 N	09	03	39	W139.06	B	08 43	09 26	08 43	09 25	08 43	09 26		
3439 D	09	57	23	E 027.51	B	09 26	10 14			09 26	10 14	09 28	10 09
3439 N	10	50	53	W165.88	A/B	10 14	11 13	10 15	11 11	10 14	11 13		
3440 D	11	44	37	E 000.72	A	11 13	12 01			11 13	12 01	11 15	11 57
3440 N	12	38	07	E 167.34	B/A	12 01	13 00	12 02	12 58	12 01	13 00		
3441 D	13	31	51	W026.10	B	13 00	13 48			13 00	13 48	13 02	13 44
3441 N	14	25	21	E 140.52	A/B	13 48	14 47	13 49	14 43	13 48	14 47		
3442 D	15	19	05	W052.92	A	14 47	15 36			14 47	15 36	14 50	15 35
3442 N	16	12	35	E 113.71	B/A	15 36	16 34	15 37	16 32	15 36	16 34		
3443 D	17	06	19	W079.73	B	16 34	17 23			16 34	17 23	16 37	17 18
3443 N	17	59	49	E 086.88	A	17 23	18 22	17 27	18 20	17 27	18 22		
3444 D	18	53	34	W106.52	A	18 22	19 10			18 22	19 09	18 24	19 06
3444 N	19	47	03	E 060.11	B	19 10	20 09	19 10	20 09	19 10	20 09		
3445 D	20	40	48	W133.33	B	20 09	20 57			20 09	20 56	20 11	20 56
3445 N	21	34	17	E 033.30	A	20 57	21 56	20 58	21 54	20 57	21 56		
3446 D	22	28	02	W160.16	A	21 56	22 42			21 56	22 41	21 59	22 37
3446 N	23	21	31	E 006.47	A			23 03	23 42	23 03	23 43		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 21 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3447 D	00	15	16	E 173.03	A					23 43	00 32	23 46	00 31
3447 N	01	08	45	W020.34	A			00 33	01 03	00 32	01 04		
3448 D	02	02	30	E 146.24	A							01 40	02 15
3448 N	02	55	59	W047.13	B			02 20	03 16				
3449 D	03	49	44	E 119.43	B							03 20	03 34
3449 N	04	43	14	W073.94	B	04 34	05 05	04 35	05 03	04 35	05 05		
3450 D	05	36	58	E 092.62	B	05 05	05 54			05 05	05 54	05 07	05 49
3450 N	06	30	28	W100.77	A/B	05 54	06 52	05 54	06 50	05 54	06 52		
3451 D	07	24	12	E 065.79	A	06 52	07 41			06 52	07 41	06 55	07 40
3451 N	08	17	42	W127.58	B/A	07 41	08 40	07 42	08 38	07 41	08 40		
3452 D	09	11	26	E 039.02	B	08 40	09 28			08 40	09 28	08 42	09 24
3452 N	10	04	56	W154.37	B	09 28	09 38	09 29	09 40	09 28	09 41		
3452 N	10	04	56	W154.37	A	09 44	10 27	09 41	10 25	09 41	10 27		
3453 D	10	58	40	E 012.19	A	10 27	11 15			10 27	11 15	10 29	11 11
3453 N	11	52	10	E 178.82	B/A	11 15	12 14	11 16	12 12	11 15	12 14		
3454 D	12	45	54	W014.62	B	12 14	13 02			12 14	13 02	12 16	12 58
3454 N	13	39	24	E 152.00	B	13 02	14 08	13 03	13 10	13 02	13 13		
3454 N	13	38	24	E 152.00	A	13 14	14 01	13 14	13 59	13 14	13 01		
3455 D	14	33	08	W041.44	A	14 01	14 50			14 01	14 50	14 04	14 49
3455 N	15	26	38	E 125.18	B/A	14 50	15 48	14 51	15 47	14 50	15 48		
3456 D	16	20	22	W068.22	B	15 48	16 37			15 48	16 37	15 51	16 36
3456 N	17	13	52	E 098.39	A	16 37	17 36	16 41	17 34	16 41	17 36		
3457 D	18	07	36	W095.05	A	17 36	18 24			17 36	18 24	17 38	18 23
3457 N	19	01	06	E 071.58	B	18 24	19 23	18 24	19 22	18 24	19 23		
3458 D	19	54	51	W121.86	B	19 23	20 10			19 23	20 10	19 25	20 10
3458 N	20	48	20	E 044.76	A	20 14	21 10	20 12	21 08	20 11	21 10		
3459 D	21	42	05	W148.68	A	21 10	21 56			21 10	21 55	21 13	21 54
3459 N	22	35	34	E 017.95									
3460 D	23	29	19	W175.46									
3460 N	00	22	48	W008.84	A			00 01	00 42	00 01	00 45		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 22 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3461 D	01	16	33	E 157.72	A					00 45	01 33	00 47	01 32
3461 N	02	10	02	W035.65	A			01 34	02 02	01 33	02 03		
3462 D	03	03	47	E 130.91	B					02 36	03 20	02 38	03 19
3462 N	03	57	17	W062.47	B			03 21	04 18	03 20	04 19		
3463 D	04	51	01	E 104.08	B					04 19	04 37		
3463 N	05	44	31	W089.29	B	05 34	06 06	05 40	06 05	05 34	06 06		
3464 D	06	38	15	E 077.30	B	06 06	06 55			06 06	06 55	06 09	06 47
3464 N	07	31	45	W116.07	A/B	06 55	07 54	06 56	07 53	06 55	07 54		
3465 D	08	25	29	E 050.49	A	07 54	08 42			07 54	08 42	07 56	08 38
3465 N	09	18	59	W142.89	A	08 42	08 56	08 43	08 53	08 42	08 56		
3465 N	09	18	59	W142.89	B	09 04	09 41	08 57	09 41	08 57	09 41		
3466 D	10	12	43	E 023.67	B	09 41	10 29			09 41	10 29	09 43	10 28
3466 N	11	06	13	W169.70	A/B	10 29	11 28	10 30	11 27	10 29	11 16		
3467 D	11	59	57	W003.14	A	11 28	12 17					11 30	12 12
3467 N	12	53	27	E 163.47	B/A	12 17	13 15	12 18	13 14	12 28	13 15		
3468 D	13	47	11	W029.93	B	13 15	14 04			13 15	14 04	13 18	14 03
3468 N	14	40	41	E 136.70	A/B	14 04	15 03	14 05	15 00	14 04	15 03		
3469 D	15	34	25	W056.74	A	15 03	15 51			15 03	15 51	15 05	15 50
3469 N	16	27	55	E 109.87	B	15 51	16 50	15 56	16 48	15 56	16 50		
3470 D	17	21	39	W083.57	B	16 50	17 39			16 50	17 38	16 52	17 34
3470 N	18	15	09	E 083.06	A	17 44	18 37	17 40	18 36	17 40	18 37		
3471 D	19	08	53	W110.38	A	18 37	19 25			18 37	19 24		
3471 N	20	02	23	E 056.23	B	19 25	20 24	19 25	20 23	19 25	20 24		
3472 D	20	56	08	W137.21	B	20 24	21 12			20 24	21 11	20 27	21 08
3472 N	21	49	37	E 029.46	A	21 13	22 11	21 14	22 11				
3473 D	22	43	22	W163.98	A	22 11	22 58			22 25	22 58	22 14	22 55
3473 N	23	36	51	E 002.63	A	23 14	23 59	23 17	23 58	23 17	23 59		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 23 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3474 D	00	30	36	E 169.19	A	23 59	00 47			23 59	00 47	00 01	00 46
3474 N	01	24	05	W024.18	A	00 47	01 05	00 48	01 19	00 47	01 19		
3475 D	02	17	50	E 142.38	B					01 51	02 34	01 52	02 30
3475 N	03	11	19	W051.00	B			02 35	03 33	02 34	03 33		
3476 D	04	05	04	E 115.56	B					03 33	03 52	03 35	03 53
3476 N	04	58	34	W077.78	B	04 51	05 20	04 49	05 20	04 49	05 20		
3477 D	05	52	18	E 088.78	B	05 20	06 09			05 20	06 09	05 23	06 08
3477 N	06	45	48	W104.60	A/B	06 09	07 08	06 10	07 07	06 09	07 08		
3478 D	07	39	32	E 061.96	A	07 08	07 56			07 08	07 56	07 13	07 55
3478 N	08	33	02	W131.42	B/A	07 56	08 55	07 57	08 54	07 56	08 55		
3479 D	09	26	46	E 035.14	B	08 55	09 43			08 55	09 43	08 57	09 39
3479 N	10	20	16	W158.23	A/B	09 43	10 42	09 44	10 41	09 43	10 42		
3480 D	11	14	00	E 008.33	A	10 42	11 31			10 42	11 31	10 44	11 23
3480 N	12	07	30	E 174.98	B/A	11 31	12 29	11 32	12 29	11 31	12 29		
3481 D	13	01	14	W018.46	B	12 29	13 18			12 29	13 18	12 32	13 10
3481 N	13	54	44	E 148.17	A/B	13 18	14 17	13 19	14 15	13 18	14 17		
3482 D	14	48	28	W045.27	A	14 17	15 05			14 17	15 05	14 19	15 01
3482 N	15	41	58	E 121.35	B/A	15 05	16 04	15 06	16 03	15 05	16 04		
3483 D	16	35	42	W072.09	B	16 04	16 52			16 04	16 52	16 06	16 51
3483 N	17	29	12	E 094.54	A	16 52	17 51	16 56	17 49	16 56	17 51		
3484 D	18	22	56	W098.91	A	17 51	18 40			17 51	18 38	17 53	18 35
3484 N	19	16	26	E 067.75	B	18 40	19 38	18 40	19 37	18 40	19 38		
3485 D	20	10	10	W125.69	B	19 38	20 27			19 38	20 27	19 41	20 22
3485 N	21	03	40	E 040.93	A	20 27	21 26	20 28	21 25	20 28	21 26		
3486 D	21	57	25	W152.51	A	21 26	22 12			21 26	22 11	21 28	22 06
3486 N	22	50	54	E 014.11									
3487 D	23	44	39	W179.33									
3487 N	00	38	08	W012.70	A			00 13	00 59	00 13	01 00		



**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 24 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG.		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3488 D	01	31	53	E 153.66	A					01 00	01 48	01 02	01 44
3488 N	02	25	22	W039.49	A			01 49	02 14	01 48	02 15		
3489 D	03	19	07	E 127.07	B					02 47	03 36	02 50	03 35
3489 N	04	12	37	W066.30	B			03 36	04 33	03 36	04 34		
3490 D	05	06	21	E 100.26	B					04 34	04 42		
3490 N	05	59	51	W093.13	B			05 49	06 21	05 49	06 22		
3491 D	06	53	35	E 073.43	B					06 22	07 10	06 24	07 09
3491 N	07	47	05	W119.94	B	07 22	07 27	07 11	07 31	07 10	07 32		
3491 N	07	47	05	W119.94	A	07 32	08 09	07 33	08 07	07 33	08 09		
3492 D	08	40	49	E 046.62	A	08 09	08 57			08 09	08 57	08 11	08 53
3492 N	09	34	19	W146.73	B/A	08 57	09 56	08 58	09 55	08 57	09 56		
3493 D	10	28	03	E 019.83	B	09 56	10 45			09 56	10 45	09 59	10 40
3493 N	11	21	33	W173.54	A/B	10 45	11 43	10 46	11 43	10 45	11 43		
3494 D	12	15	17	W006.98	A	11 43	12 32			11 43	12 32	11 46	12 27
3494 N	13	08	47	E 159.65	B/A	12 32	13 31	12 33	13 29	12 32	13 31		
3495 D	14	02	31	W033.81	B	13 31	14 19			13 31	14 19	13 33	14 15
3495 N	14	56	01	E 132.82	A/B	14 19	15 18	14 20	15 17	14 19	15 18		
3496 D	15	49	45	W060.62	A	15 18	16 06			15 18	16 06	15 20	16 05
3496 N	16	43	15	E 106.01	B/A	16 06	17 05	16 12	17 03	16 06	17 05		
3497 D	17	36	59	W087.39	B	17 05	17 54			17 05	17 54	17 07	17 53
3497 N	18	30	29	E 079.22	A	17 55	18 52	17 55	18 50	17 56	18 52		
3498 D	19	24	13	W114.22	A	18 52	19 41			18 52	19 41	18 55	19 40
3498 N	20	17	43	E 052.41	B	19 41	20 40	19 41	20 39	19 41	20 40		
3499 D	21	11	27	W141.03	B	20 40	21 28			20 40	21 25	20 42	21 24
3499 N	22	04	57	E 025.59	A	21 28	22 27	21 29	22 26	21 28	22 27		
3500 D	22	58	42	W167.86	A	22 27	23 14			22 27	23 14	22 29	23 14
3500 N	23	52	11	W001.23	A			23 28	00 13	23 28	00 14		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 25 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC	DEG		HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3501 D	00	45	56	E 165.37	A					00 14	01 02	00 16	01 01
3501 N	01	39	25	W028.01	A			01 03	01 30	01 02	01 30		
3502 D	02	33	10	E 138.54	B					02 01	02 50	02 04	02 49
3502 N	03	26	39	W054.83	B			02 51	03 47	02 50	03 48		
3503 D	04	20	24	E 111.73	B					03 48	04 00	03 51	03 58
3503 N	05	13	54	W081.65	B	05 04	05 36	05 04	05 35	05 04	05 36		
3504 D	06	07	38	E 084.91	B	05 36	06 24			05 36	06 24	05 38	06 23
3504 N	07	01	08	W108.46	A/B	06 24	07 23	06 25	07 22	06 24	07 23		
3505 D	07	54	52	E 058.13	A	07 23	08 11			07 23	08 11	07 25	08 07
3505 N	08	48	22	W135.25	B/A	08 11	09 10	08 12	09 09	08 11	09 10		
3506 D	09	42	06	E 031.31	B	09 10	09 59			09 10	09 59	09 13	09 58
3506 N	10	35	36	W162.06	A/B	09 59	10 57	10 00	10 56	09 59	10 57		
3507 D	11	29	20	E 004.49	A	10 57	11 46			10 57	11 46	11 00	11 41
3507 N	12	22	50	E 171.11	B/A	11 46	12 45	11 47	12 43	11 46	12 45		
3508 D	13	16	34	W022.33	B	12 45	13 33			12 45	13 33	12 47	13 32
3508 N	14	10	04	E 144.30	A/B	13 33	14 32	13 34	14 31	13 33	14 32		
3509 D	15	03	48	W049.11	A	14 32	15 20			14 32	15 20	14 34	15 19
3509 N	15	57	18	E 117.51	B/A	15 20	16 19	15 28	16 19	15 20	16 19		
3510 D	16	51	02	W075.93	B	16 19	17 08			16 19	17 08	16 21	17 03
3510 N	17	44	32	E 090.70	A	17 08	18 06	17 11	18 06	17 11	18 06		
3511 D	18	38	16	W102.74	A	18 06	18 55			18 06	18 54	18 09	18 50
3511 N	19	31	46	E 063.89	B	18 55	19 54	18 55	19 51	18 55	19 54		
3512 D	20	25	30	W129.55	B	19 54	20 30			19 54	20 40	19 56	20 38
3512 N	21	19	00	E 037.06	A	20 43	21 41	20 43	21 41	20 42	21 41		
3513 D	22	12	44	W156.34	A	21 41	22 27			21 41	22 27	21 43	22 25
3513 N	23	06	14	E 010.29	A	22 43	23 28	22 49	23 26	22 49	23 28		
3514 D	23	59	58	E 176.84	A	23 28	00 17			23 28	00 17	23 30	00 16
3514 N	00	53	28	W016.54	A	00 17	00 35	00 17	00 51	00 17	00 51		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 26 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3515 D	01	47	13	E 150.02	B					01 16	02 04	01 18	01 59
3515 N	02	40	42	W043.35	B			02 05	03 01	02 04	03 03		
3516 D	03	34	27	E 123.21	B					03 03	03 18	03 05	03 15
3516 N	04	27	57	W070.18	B	04 21	04 50	04 21	04 48	04 21	04 50		
3517 D	05	21	41	E 096.42	B	04 50	05 38			04 50	05 38	04 52	05 34
3517 N	06	15	11	W096.95	B	05 38	06 00	05 39	05 59	05 38	06 00		
3517 N	06	15	11	W096.95	B	06 03	06 37	06 06	06 36	06 06	06 37		
3518 D	07	08	55	E 069.61	B	06 37	07 25			06 37	07 25	06 39	07 21
3518 N	08	02	25	W123.78	A/B	07 25	08 24	07 26	08 23	07 25	08 24		
3519 D	08	56	09	E 042.78	A	08 24	09 13			08 24	09 13	08 27	09 08
3519 N	09	49	39	W150.59	A	09 13	09 25	09 14	09 25	09 13	09 25		
3519 N	09	49	39	W150.59	A	09 30	10 11	09 30	10 11	09 30	10 11		
3520 D	10	43	23	E 015.97	A	10 11	11 00			10 11	11 00	10 14	10 59
3520 N	11	36	53	W177.41	B/A	11 00	11 59	11 01	11 57	11 00	11 59		
3521 D	12	30	37	W010.82	B	11 59	12 47			11 59	12 47	12 01	12 46
3521 N	13	24	07	E 155.81	A/B	12 47	13 46	12 48	13 44	12 47	13 46		
3522 D	14	17	51	W037.63	A	13 46	14 34			13 46	14 34	13 48	14 33
3522 N	15	11	21	E 128.99	B/A	14 34	15 33	14 35	15 32	14 34	15 33		
3523 D	16	05	05	W064.46	B	15 33	16 22			15 33	16 22	15 35	16 21
3523 N	16	58	35	E 102.18	A	16 22	17 20	16 26	17 20	16 26	17 20		
3524 D	17	52	19	W091.27	A	17 20	18 09			17 20	18 09	17 23	18 05
3524 N	18	45	49	E 075.35	B	18 13	19 08	18 10	19 07	18 10	19 08		
3525 D	19	39	33	W118.06	B	19 08	19 51			19 08	19 54	19 10	19 55
3525 N	20	33	03	E 048.57	A	19 55	20 55	19 57	20 54	19 56	20 55		
3526 D	21	26	47	W144.87	A	20 55	21 41			20 55	21 41	20 57	21 42
3526 N	22	20	17	E 021.76									
3527 D	23	14	01	W171.68									
3527 N	00	07	31	W005.06	A			23 45	00 29	23 45	00 29		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 27 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3528 D	01	01	15	E 161.50	A					00 29	01 18	00 32	01 13
3528 N	01	54	45	W031.87	A			01 19	01 45	01 18	01 47		
3529 D	02	48	30	E 134.72	B					02 17	03 05	02 19	03 01
3529 N	03	41	59	W058.66	B			03 06	04 02	03 05	04 04		
3530 D	04	35	44	E 107.89	B					04 04	04 15	04 06	04 13
3530 N	05	29	14	W085.47	B	05 19	05 51	05 19	05 49	05 19	05 51		
3531 D	06	22	58	E 081.08	B	05 51	06 40			05 51	06 40	05 53	06 38
3531 N	07	16	28	W112.30	A/B	06 40	07 38	06 40	07 36	06 40	07 38		
3532 D	08	10	12	E 054.26	A	07 38	08 27			07 38	08 27	07 41	08 26
3532 N	09	03	42	W139.11	B/A	08 27	09 26	08 28	09 24	08 27	09 26		
3533 D	09	57	26	E 027.48	B	09 26	10 14			09 26	10 14	09 28	10 09
3533 N	10	50	56	W165.90	A/B	10 14	11 13	10 15	11 10	10 14	11 13		
3534 D	11	44	40	E 000.66	A	11 13	12 01			11 13	12 01	11 15	11 57
3534 N	12	38	10	E 167.29	B/A	12 01	13 00	12 02	12 58	12 01	13 00		
3535 D	13	31	54	W026.16	B	13 00	13 48			13 00	13 48	13 02	13 44
3535 N	14	25	24	E 140.46	A/B	13 48	14 47	13 49	14 46	13 48	14 47		
3536 D	15	19	08	W052.98	A	14 47	15 36			14 47	15 36	14 50	15 31
3536 N	16	12	38	E 113.65	B/A	15 36	16 34	15 37	06 34	15 36	16 35		
3537 D	17	06	22	W079.76	B	16 34	17 23			16 35	17 23	16 37	17 18
3537 N	17	59	52	E 086.86	A	17 23	18 22	17 27	18 19	17 27	18 22		
3538 D	18	53	36	W106.58	A	18 22	19 10			18 22	19 10	18 24	19 06
3538 N	19	47	06	E 060.05	B	19 10	20 09	19 10	20 08	19 10	20 09		
3539 D	20	40	50	W133.39	B	20 09	20 57			20 09	20 57	20 11	20 53
3539 N	21	34	20	E 033.25	A	20 57	21 56	20 58	21 56	20 57	21 56		
3540 D	22	28	04	W160.22	A	21 56	22 43			21 56	22 43	21 59	22 44
3540 N	23	21	34	E 006.41	A	22 59	23 43	23 00	23 42	23 00	23 43		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 28 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3541 D	00	15	18	E 173.01	A	23 43	00 32			23 43	00 32	23 46	00 27
3541 N	01	08	48	W020.38	A	00 32	00 49	00 33	01 02	00 32	01 02		
3542 D	02	02	32	E 146.19	B					01 31	02 19	01 31	02 15
3542 N	02	56	02	W047.19	B			02 20	03 17	02 19	03 18		
3543 D	03	49	46	E 119.37	B					03 18	03 32	03 20	03 31
3543 N	04	43	17	W074.00	B	04 35	05 05	04 34	05 03	04 34	05 05		
3544 D	05	37	01	E 092.56	B	05 05	05 54			05 05	05 54	05 07	05 49
3544 N	06	30	31	W100.82	A/B	05 54	06 52	05 54	06 52	05 54	06 52		
3545 D	07	24	15	E 065.77	A	06 52	07 41			06 52	07 41	06 55	07 36
3545 N	08	17	45	W127.60	B/A	07 41	08 40	07 42	08 38	07 41	08 40		
3546 D	09	11	29	E 038.96	B	08 40	09 28			08 40	09 28	08 42	09 24
3546 N	10	04	59	W154.42	A/B	09 28	10 27	09 29	10 26	09 28	10 27		
3547 D	10	58	43	E 012.13	A	10 27	11 15			10 27	11 15	10 29	11 11
3547 N	11	52	13	E 178.76	B/A	11 15	12 14	11 16	12 14	11 15	12 14		
3548 D	12	45	57	W014.68	B	12 14	13 03			12 14	13 03	12 16	12 58
3548 N	13	39	27	E 151.94	A/B	13 03	14 01	13 03	14 00	13 03	14 01		
3549 D	14	33	11	W041.47	A	14 01	14 50			14 01	14 50	14 04	14 49
3549 N	15	26	41	E 125.16	B/A	14 50	15 49	14 57	15 47	14 50	15 49		
3550 D	16	20	25	W068.28	B	15 49	16 37			15 49	16 37	15 51	16 32
3550 N	17	13	55	E 098.34	A/B	16 37	17 36	16 44	17 35	16 37	17 36		
3551 D	18	07	39	W095.11	A	17 36	18 24			17 36	18 24	17 38	18 20
3551 N	19	01	09	E 071.53	B	18 24	19 23	18 25	19 21	18 25	19 23		
3552 D	19	54	53	W121.92	B	19 23	20 12			19 23	20 09	19 25	20 10
3552 N	20	48	23	E 044.70	A	20 12	21 10	20 12	21 10	20 12	21 10		
3553 D	21	42	07	W148.71	A	21 10	21 57			21 10	21 57	21 13	21 58
3553 N	22	35	38	E 017.93									
3554 D	23	29	21	W175.52									
3554 N	00	22	51	W008.90	A			23 51	00 44	23 51	00 45		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 29 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3555 D	01	16	35	E 157.66	A					00 45	01 33	00 47	01 29
3555 N	02	10	05	W035.71	A			01 34	01 52	01 33	01 53		
3556 D	03	03	49	E 130.85	B					02 32	03 20	02 34	03 19
3556 N	03	57	19	W062.54	B			03 21	04 17	03 20	04 19		
3557 D	04	51	03	E 104.07	B					04 19	04 30		
3557 N	05	44	34	W089.31	B	05 34	06 06	05 34	06 04	05 34	06 06		
3558 D	06	38	18	E 077.24	B	06 06	06 55			06 06	06 55	06 09	06 54
3558 N	07	31	48	W116.12	A/B	06 55	07 54	06 56	07 51	06 55	07 54		
3559 D	08	25	32	E 050.43	A	07 54	08 42			07 54	08 42	07 56	08 41
3559 N	09	19	02	W142.95	B/A	08 42	09 41	08 43	09 38	08 42	09 41		
3560 D	10	12	46	E 023.61	B	09 41	10 29			09 41	10 29	09 43	10 25
3560 N	11	06	16	W169.76	A/B	10 29	11 28	10 30	11 27	10 29	11 15		
3561 D	12	00	00	W003.70	A	11 28	12 17					11 30	12 12
3561 N	12	53	30	E 163.45	B/A	12 17	13 15	12 17	13 12	12 28	13 15		
3562 D	13	47	14	W029.99	B	13 15	14 04			13 15	14 04	13 18	13 59
3562 N	14	40	44	E 136.64	A/B	14 04	15 03	14 05	15 02	14 04	15 03		
3563 D	15	34	28	W056.80	A	15 03	15 51			15 03	15 51	15 05	15 50
3563 N	16	27	58	E 109.81	B	15 51	16 50	15 56	16 49	15 57	16 50		
3564 D	17	21	42	W083.63	B	16 50	17 39			16 50	17 38	16 52	17 34
3564 N	18	15	12	E 083.00	A	17 44	18 37	17 40	18 35	17 40	18 37		
3565 D	19	08	56	W110.41	A	18 37	19 26			18 37	19 24	18 40	19 24
3565 N	20	02	26	E 056.21	B	19 26	20 24	19 26	20 23	19 26	20 24		
3566 D	20	56	10	W137.23	B	20 24	21 13			20 24	21 11	20 27	21 12
3566 N	21	49	40	E 029.40	A	21 13	22 12	21 13	22 10	21 13	22 12		
3567 D	22	43	24	W164.04	A	22 12	22 59			22 12	22 57	22 14	22 28
3567 N	23	36	54	E 002.58	A			23 13	23 56	23 13	23 59		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 30 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDRSS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME\			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3568 D	00	30	38	E 169.13	A					23 59	00 47	00 01	00 46
3568 N	01	24	08	W024.23	A			00 48	01 13	00 47	01 15		
3569 D	02	17	52	E 142.36	B					01 46	02 35	01 48	02 33
3569 N	03	11	22	W 051.02	B			02 35	03 31	02 35	03 33		
3570 D	04	05	06	E 115.53	B					03 33	03 46	03 36	03 43
3570 N	04	58	36	W077.84									
3571 D	05	52	20	E 088.72									
3571 N	06	45	51	W104.66	B	06 34	07 08	06 36	07 06	06 36	07 08		
3572 D	07	39	34	E 061.91	B	07 08	07 56			07 08	07 56	07 10	07 55
3572 N	08	33	05	W131.47	A/B	07 56	08 55	07 57	08 53	07 56	08 55		
3573 D	09	26	49	E 035.12	A	08 55	09 43			08 55	09 43	08 57	09 42
3573 N	10	20	19	W158.26	A	09 43	09 56	09 44	09 57	09 43	09 55		
3573 N	10	20	19	W158.26	B	10 14	10 42	09 57	10 40	09 55	10 42		
3574 D	11	14	03	E 008.31	B	10 42	11 31			10 42	11 31	10 45	11 30
3574 N	12	07	33	E 174.93	A/B	11 31	12 29	11 31	12 27	11 31	12 29		
3575 D	13	01	17	W018.52	A	12 29	13 18			12 29	13 18	12 32	13 17
3575 N	13	54	47	E 148.12	B/A	13 18	14 17	13 19	14 15	13 18	14 17		
3576 D	14	48	31	W045.33	B	14 17	15 05			14 17	15 05	14 19	15 01
3576 N	15	42	01	E 121.29	A/B	15 05	16 04	15 06	16 03	15 05	16 04		
3577 D	16	35	45	W072.12	A	16 04	16 52			16 04	16 52	16 06	16 51
3577 N	17	29	15	E 094.52	B	16 52	17 51	16 57	17 49	16 55	17 51		
3578 D	18	22	59	W098.93	B	17 51	18 40			17 51	18 37	17 54	18 35
3578 N	19	16	29	E 067.69	A	18 44	19 38	18 40	19 36	18 40	19 38		
3579 D	20	10	13	W125.76	A	19 38	20 27			19 38	20 25	19 41	20 26
3579 N	21	03	43	E 040.88	B	20 27	21 26	20 27	21 24	20 27	21 26		
3580 D	21	57	27	W152.57	B	21 26	22 14			21 26	22 14	21 28	22 13
3580 N	22	50	57	E 040.88	A	22 27	23 13	22 28	23 12	22 28	23 13		
3581 D	23	44	41	W179.36	A	23 13	00 01			23 13	00 01	23 15	00 00
3581 N	00	38	11	W012.76	A	00 01	00 21	00 01	00 29	00 01	00 26		

**TABLE 2-2**  
**SENSOR ON – OFF TIMES**  
**DATE 31 DECEMBER 1970**

DATA ORBIT	ASCEND/DESCEND NODE				HDS	IRIS		THIR HUMIDITY		THIR TEMPERATURE		IDCS	
	TIME			LONG DEG		ON	OFF	ON	OFF	ON	OFF	ON	OFF
	HR	MIN	SEC			HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN	HR MIN
3582D	01	31	55	E 153.84	B					01 02	01 49	01 02	01 44
3582 N	02	25	25	W039.54	B			01 49	02 45	01 49	02 47		
3583 D	03	19	09	E 127.01	B					02 47	03 02	02 50	03 04
3583 N	04	12	39	W066.35									
3584 D	05	06	23	E 100.20									
3584 N	05	59	53	W093.18	B	05 44	06 22	05 50	06 21	05 50	06 22		
3585 D	06	53	37	E 073.41	B	06 22	07 10			06 22	07 10	06 24	07 09
3585 N	07	47	08	W119.99	A/B	07 10	08 09	07 11	08 07	07 10	08 09		
3586 D	08	40	51	E 046.60	A	08 09	08 58			08 09	08 58	08 11	08 56
3586 N	09	34	22	W146.78	B/A	08 58	09 56	08 58	09 53	08 58	09 56		
3587 D	10	28	05	E 019.79	B	09 56	10 45			09 56	10 45	09 59	10 44
3587 N	11	21	36	W173.59	A/B	10 45	11 44	10 46	11 43	10 45	10 56		
3588 D	12	15	20	W007.04	A	11 44	12 32			12 22	12 32	11 46	12 27
3588 N	13	08	50	E 159.58	B/A	12 32	13 31	12 33	13 28	12 32	13 31		
3589 D	14	02	34	W033.81	B	13 31	14 19			13 31	14 19	13 33	14 18
3589 N	14	56	04	E 132.77	A/B	14 19	15 18	14 20	15 16	14 19	15 18		
3590 D	15	49	48	W060.64	A	15 18	16 06			15 18	16 06	15 20	16 02
3590 N	16	43	18	E 106.00	B/A	16 06	17 05	16 07	17 04	16 06	17 05		
3591 D	17	37	02	W087.45	B	17 05	17 54			17 05	17 54	17 08	17 53
3591 N	18	30	32	E 079.17	A	17 54	18 52	17 55	18 51	17 54	18 52		
3592 D	19	24	16	W114.27	A	18 52	19 41			18 52	19 39	18 55	19 40
3592 N	20	17	46	E 052.36	B	19 41	20 40	19 41	20 38	19 41	20 40		
3593 D	21	11	30	W141.05	B	20 40	21 28			20 40	21 26	20 42	21 24
3593 N	22	05	00	E 025.54	A	21 28	22 27	21 29	22 26	21 28	22 27		
3594 D	22	58	44	W167.87	A	22 27	23 13			22 27	23 11	22 29	23 11
3594 N	23	52	14	W001.24	A			23 26	00 13	23 26	00 14		



### SECTION 3

#### IMAGE DISSECTOR CAMERA SYSTEM MONTAGES

This section depicts the data from the Image Dissector Camera System (IDCS) experiment carried on the Nimbus 4 Meteorological Satellite. The pictorial montage presentation facilitates perusal and search of the IDCS data for preliminary research and also enables the user to determine his specific IDCS film data requirements.

The montages shown represent the daytime television pictures obtained for each day (UT) and are arranged in chronological order in a world montage format. Complete daylight orbital coverage is obtained with 15 consecutive pictures. Successive orbits, displaced about 27 degrees westward in longitude at the equator, provide adjacent pictorial data, with increasing overlap from the equator toward the poles. Data orbit number is indicated below each swath.

A vellum IDCS grid overlay (IDCS Location Guide), attached to the back of this catalog, is to be used for approximate location and orientation of the montage data. Proper alignment of the grid is accomplished by matching the grid indices on the equator with two "T" marks on each montage.

The data area, 5" x 9" in size, has been reduced from the original montage size of 22" x 32". This reduction, required for convenient catalog dimensions, still permits recognition of major cloud and land features.

A description of the IDCS experiment and instructions for ordering IDCS data may be found in the Nimbus IV User's Guide, Section 2.



2788 2787 2786 2785 2784 2783 2782 2781 2780 2779 2778 2777 2776

1 NOVEMBER 1970



2802 2801 2800 2799 2798 2797 2796 2795 2794 2793 2792 2791 2790 2789

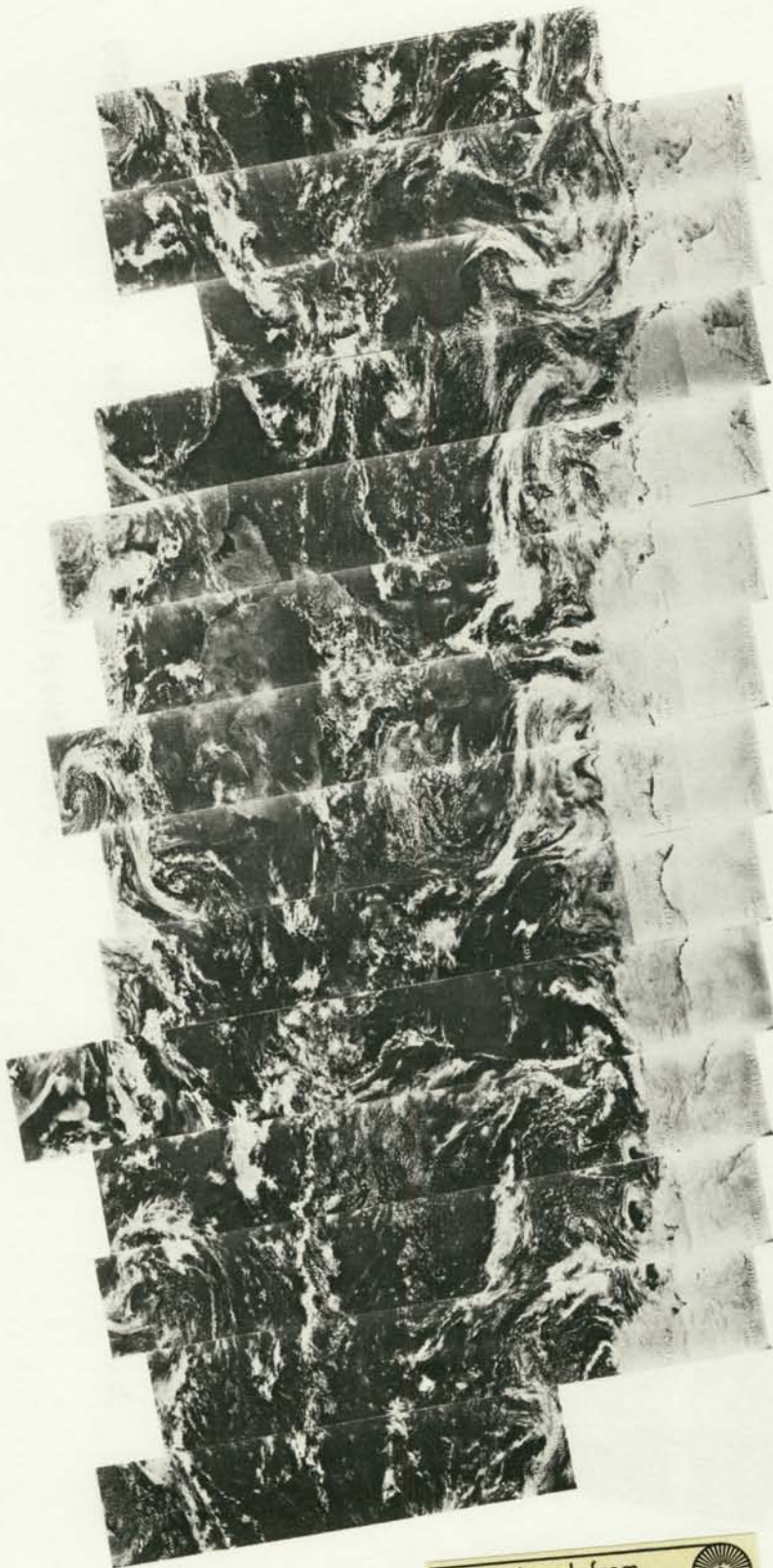
2 NOVEMBER 1970





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3 NOVEMBER 1970



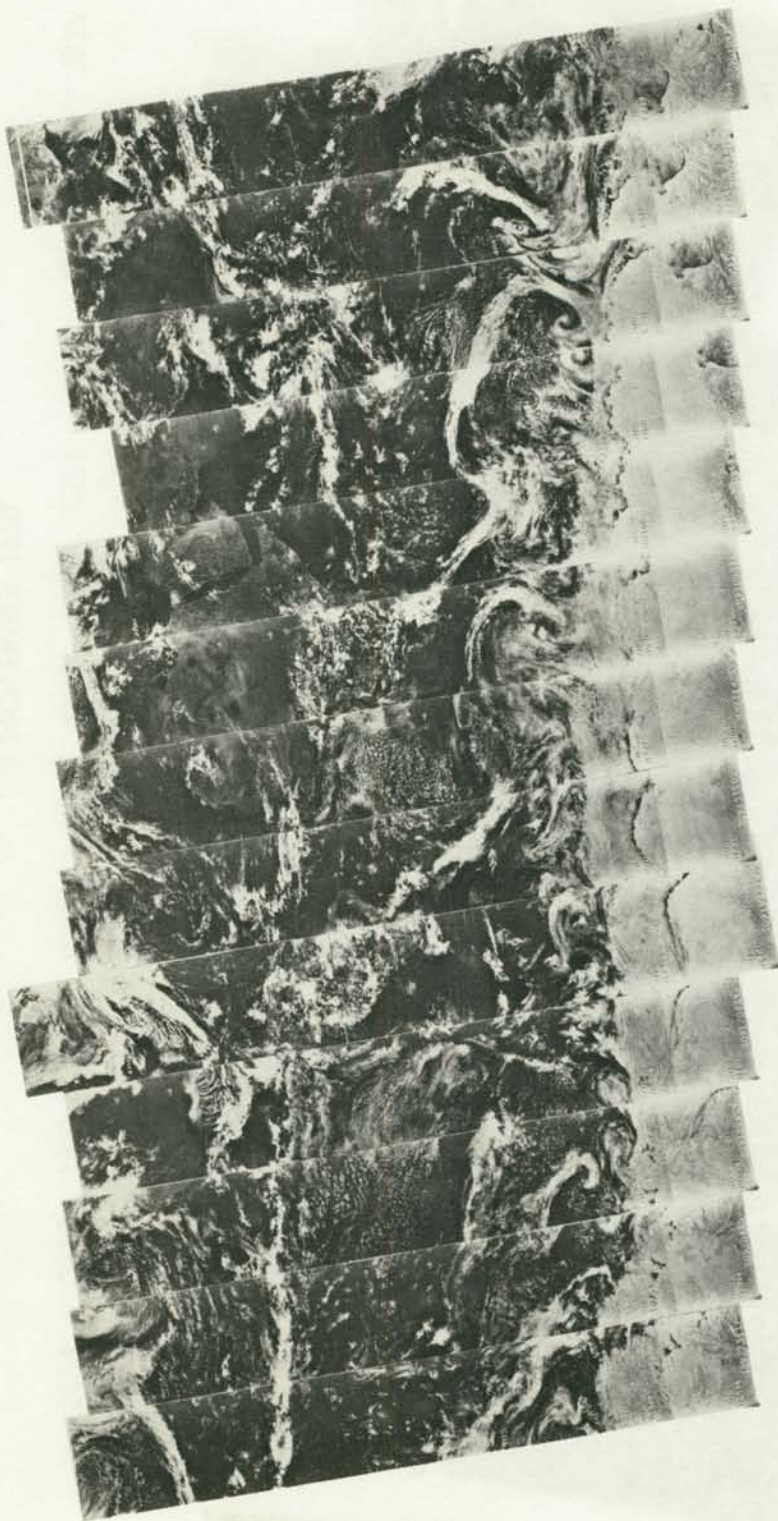
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best available copy.



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4 NOVEMBER 1970





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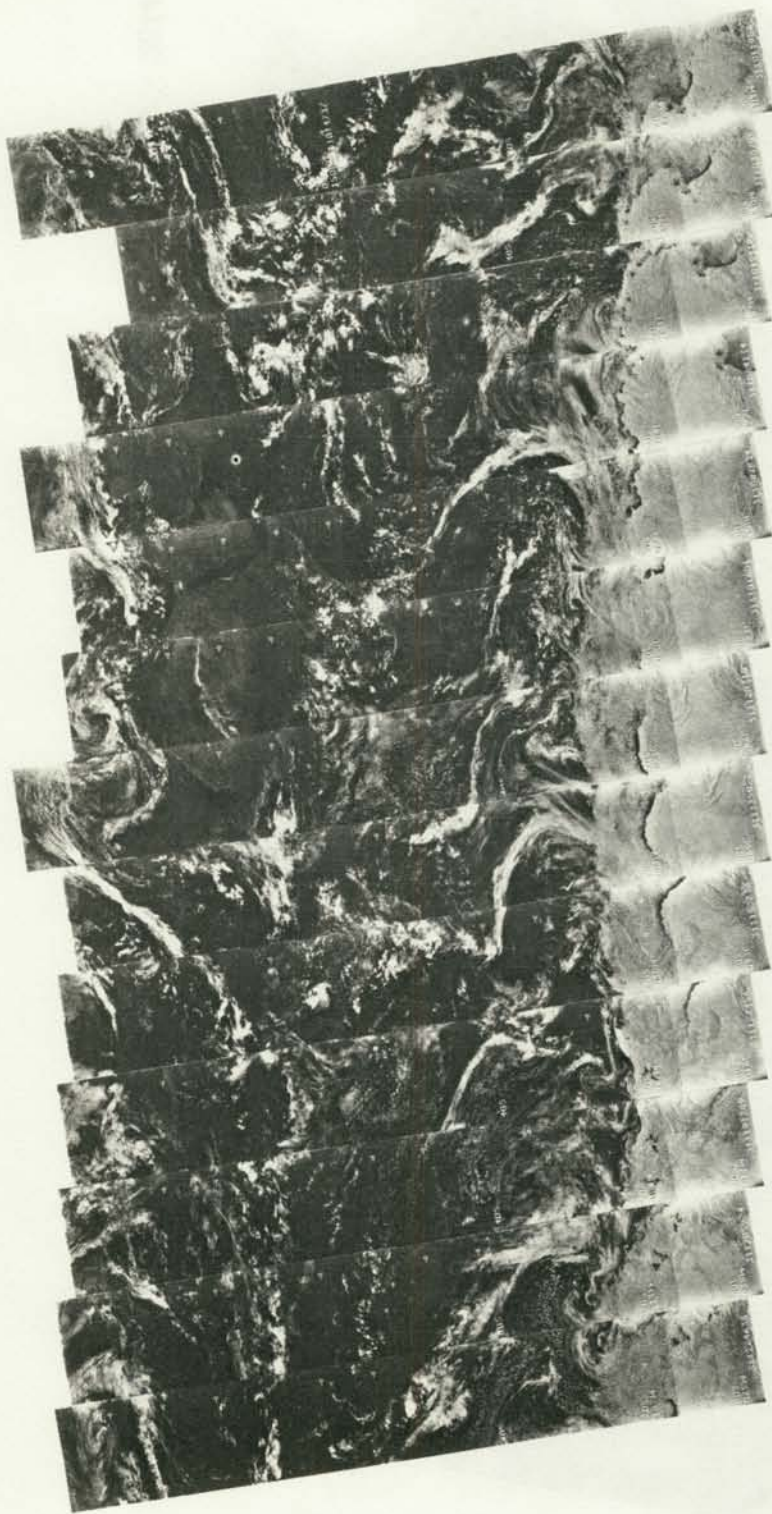
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6 NOVEMBER 1970





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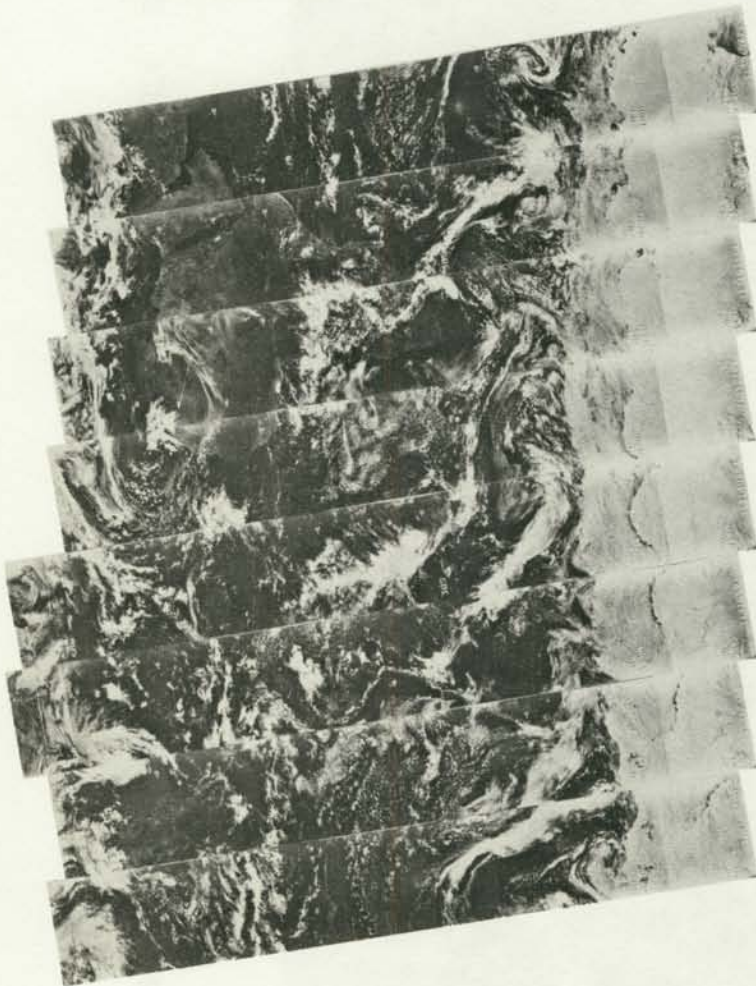
7 NOVEMBER 1970





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8 NOVEMBER 1970



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9 NOVEMBER 1970





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10 NOVEMBER 1970

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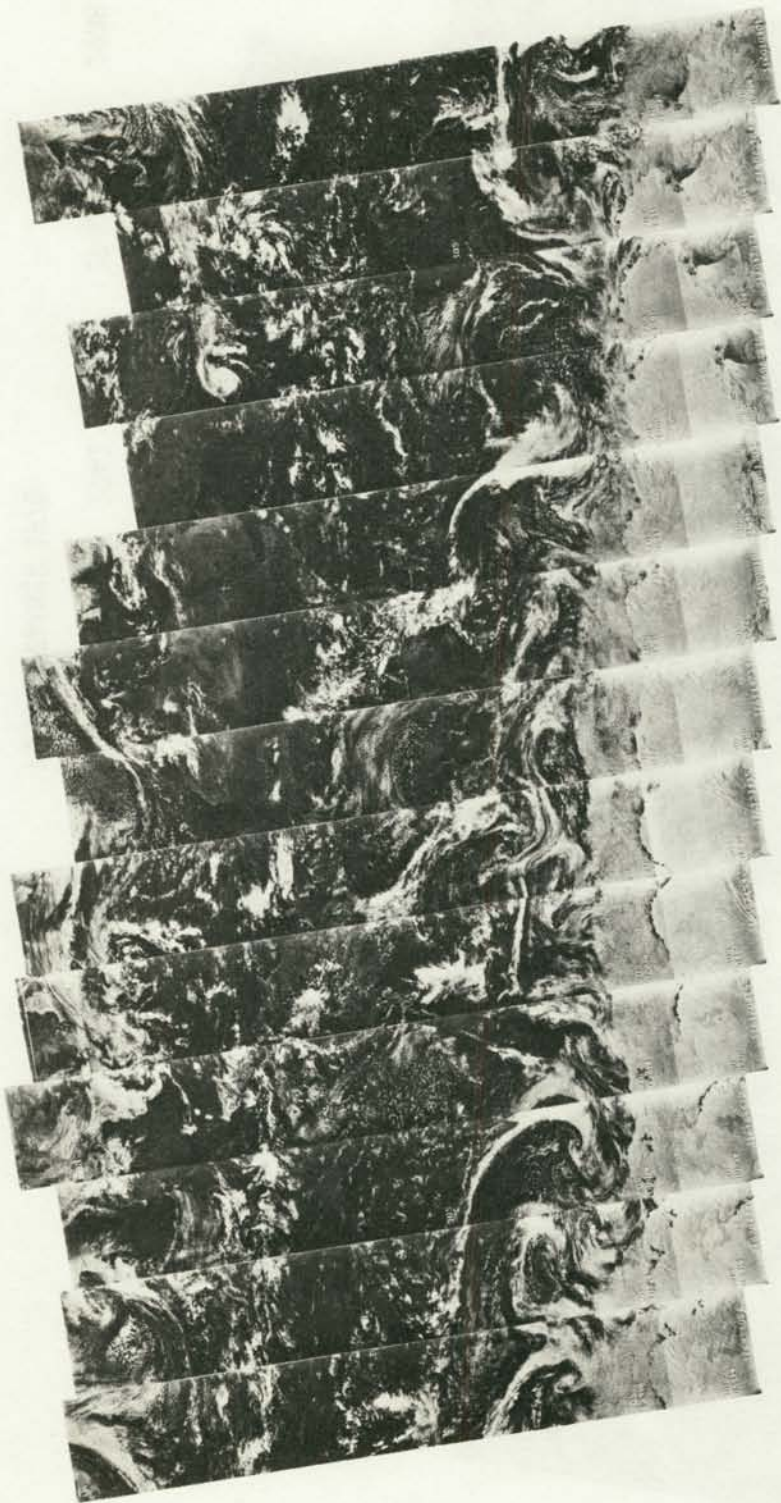




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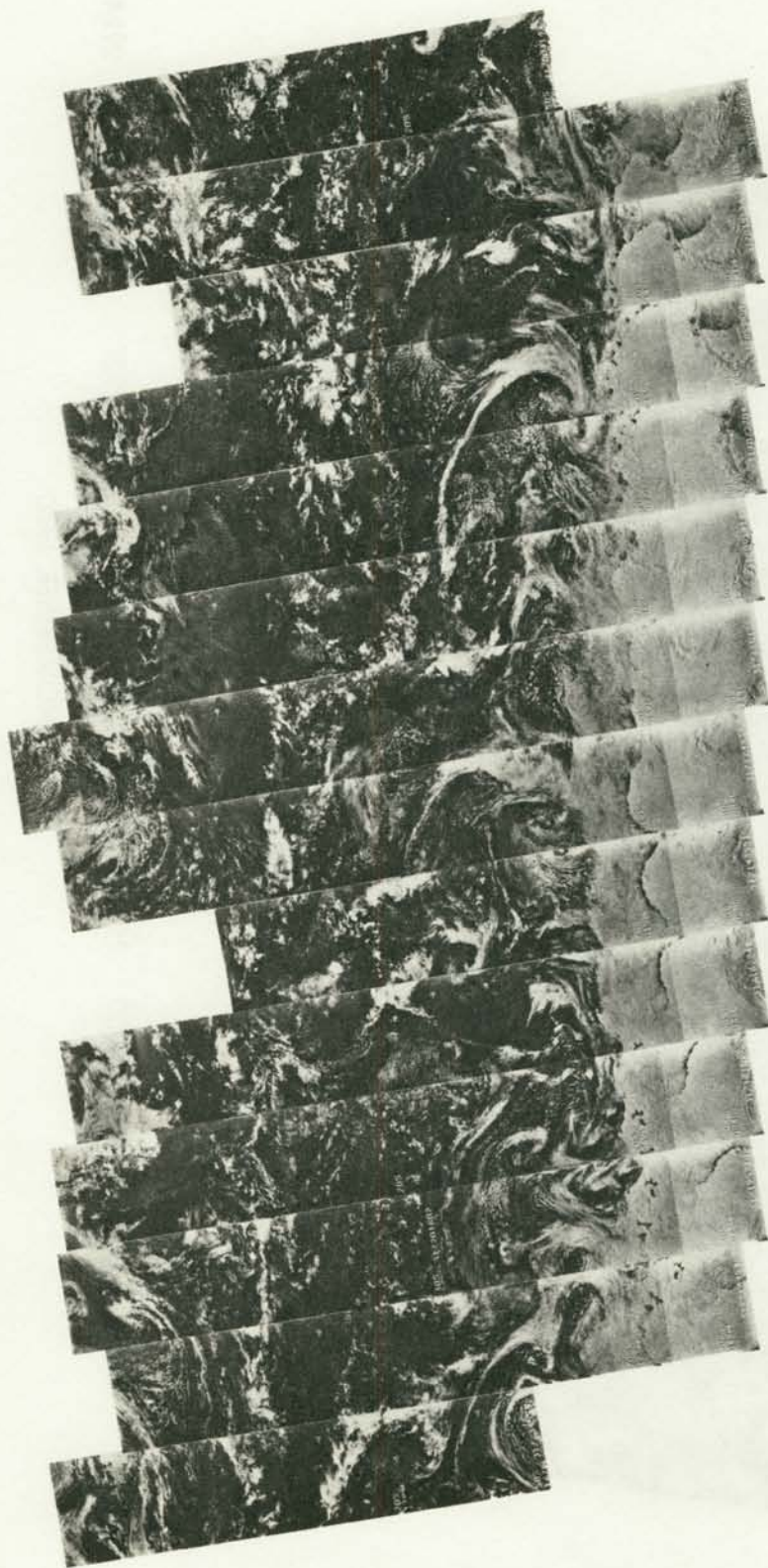
11 NOVEMBER 1970





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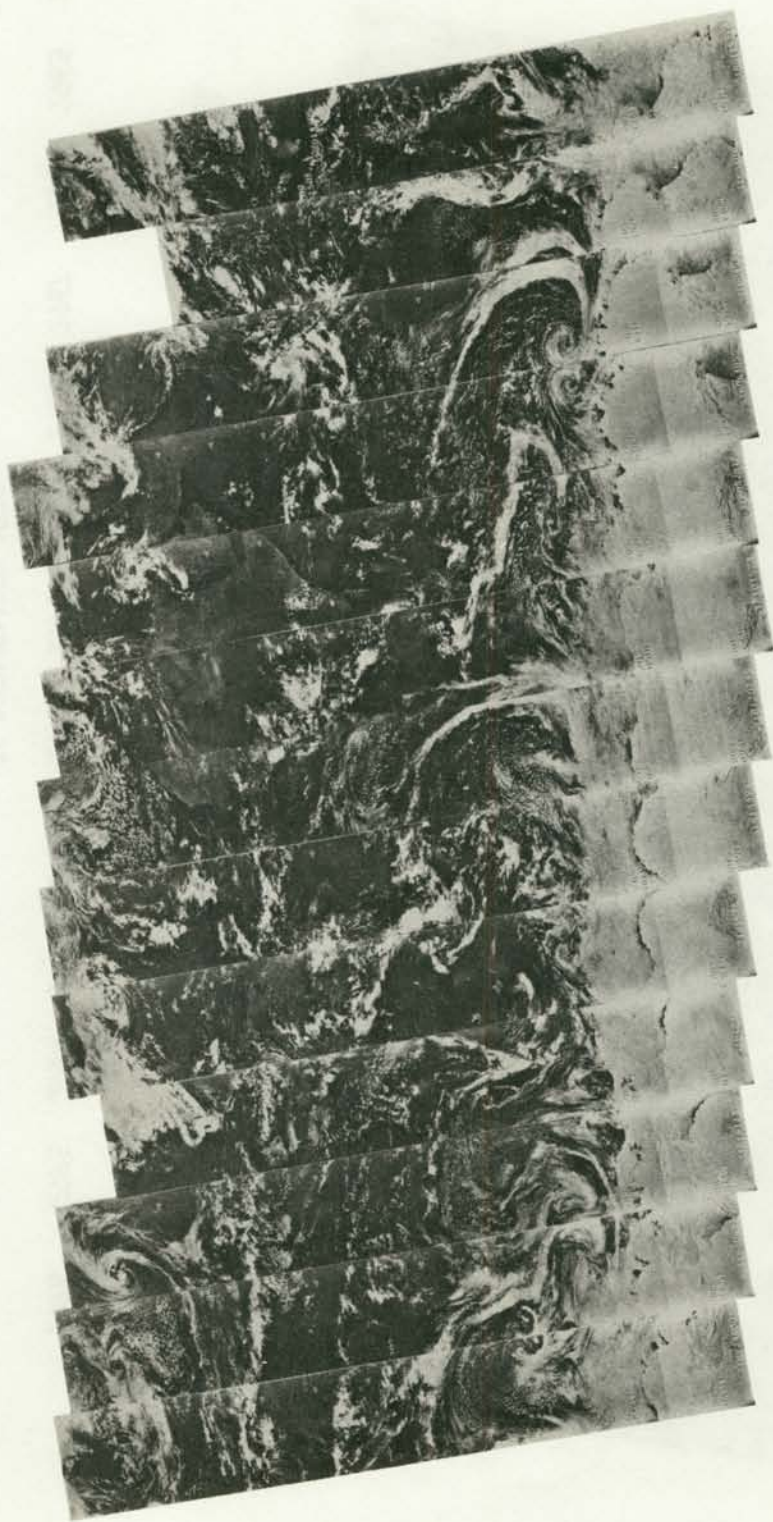
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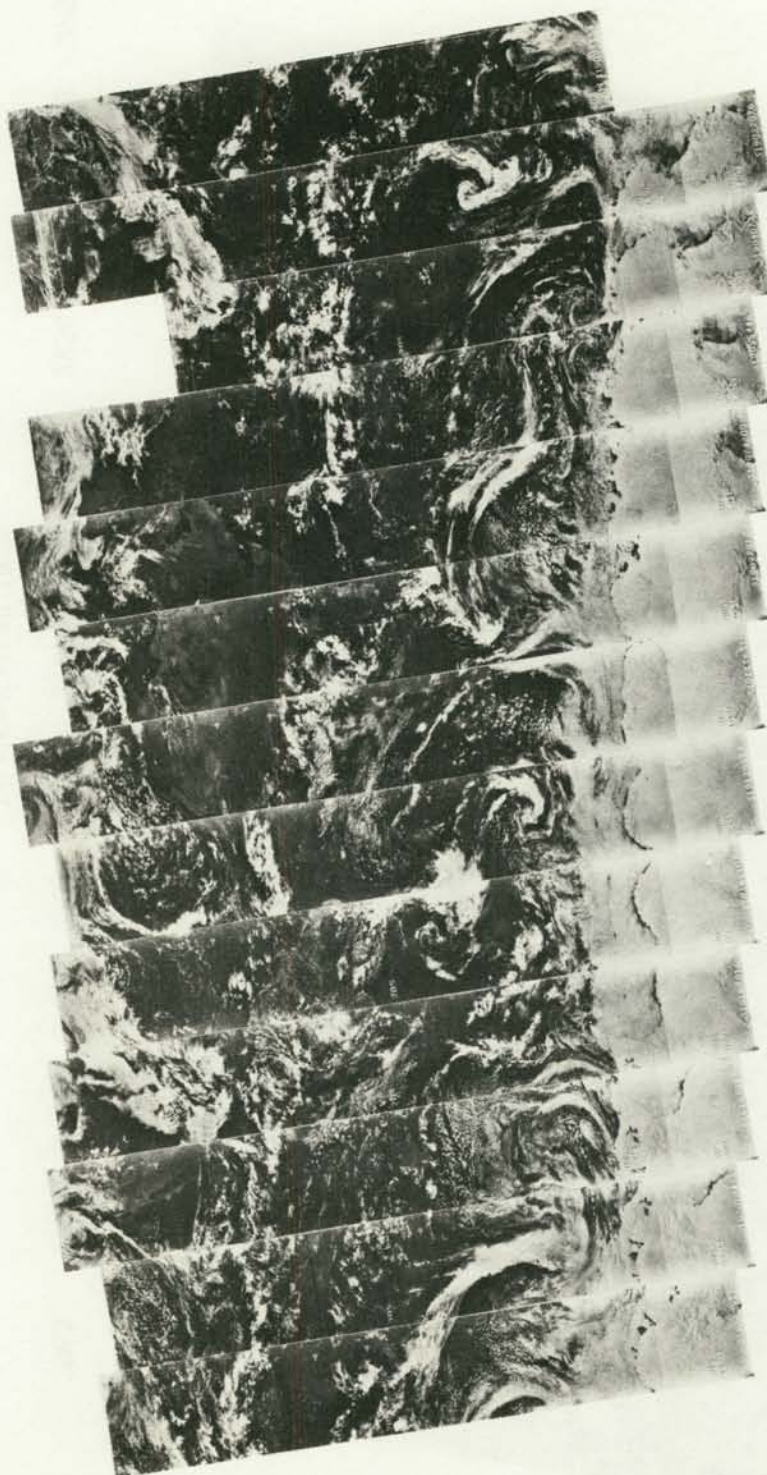
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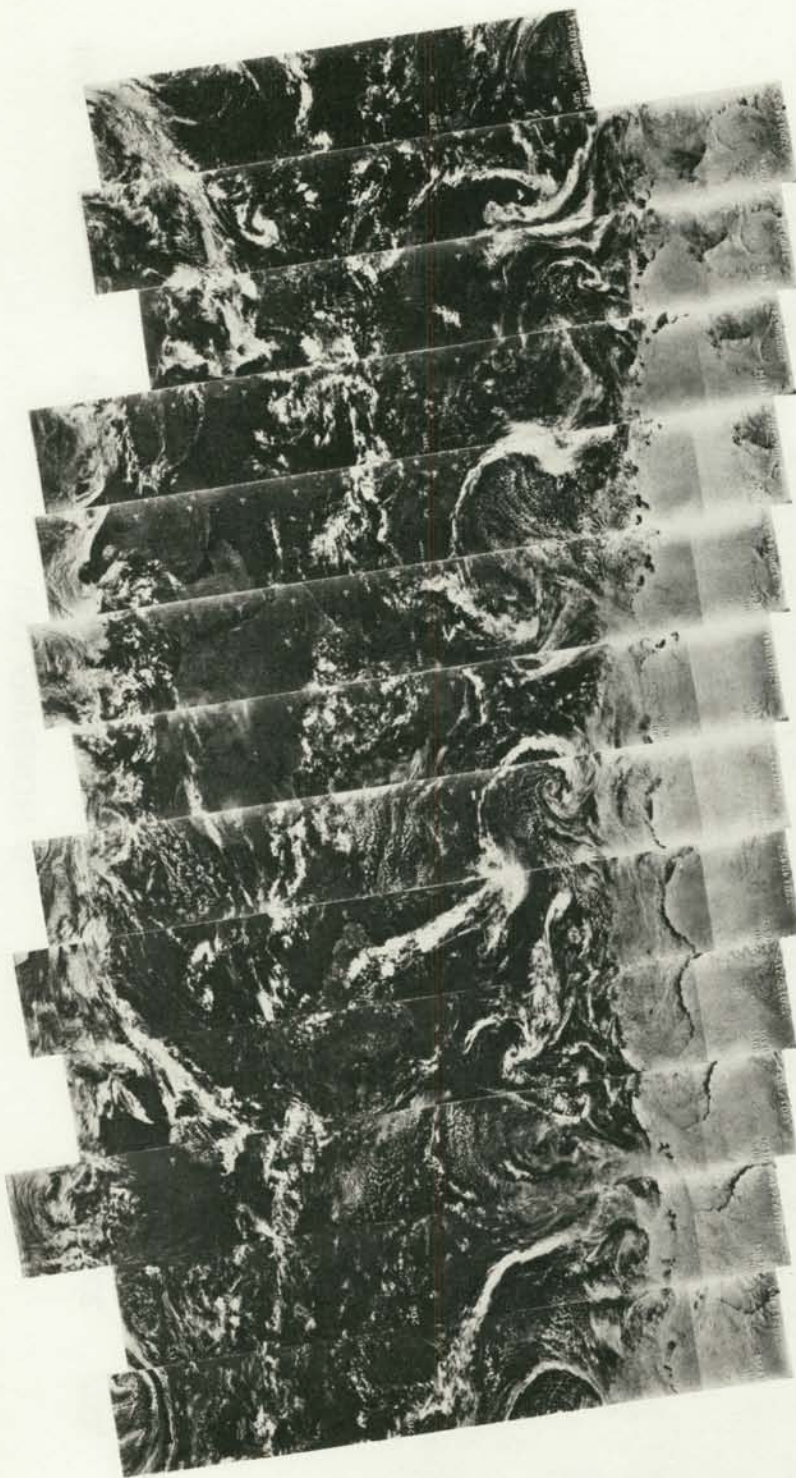
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15 NOVEMBER 1970





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16 NOVEMBER 1970

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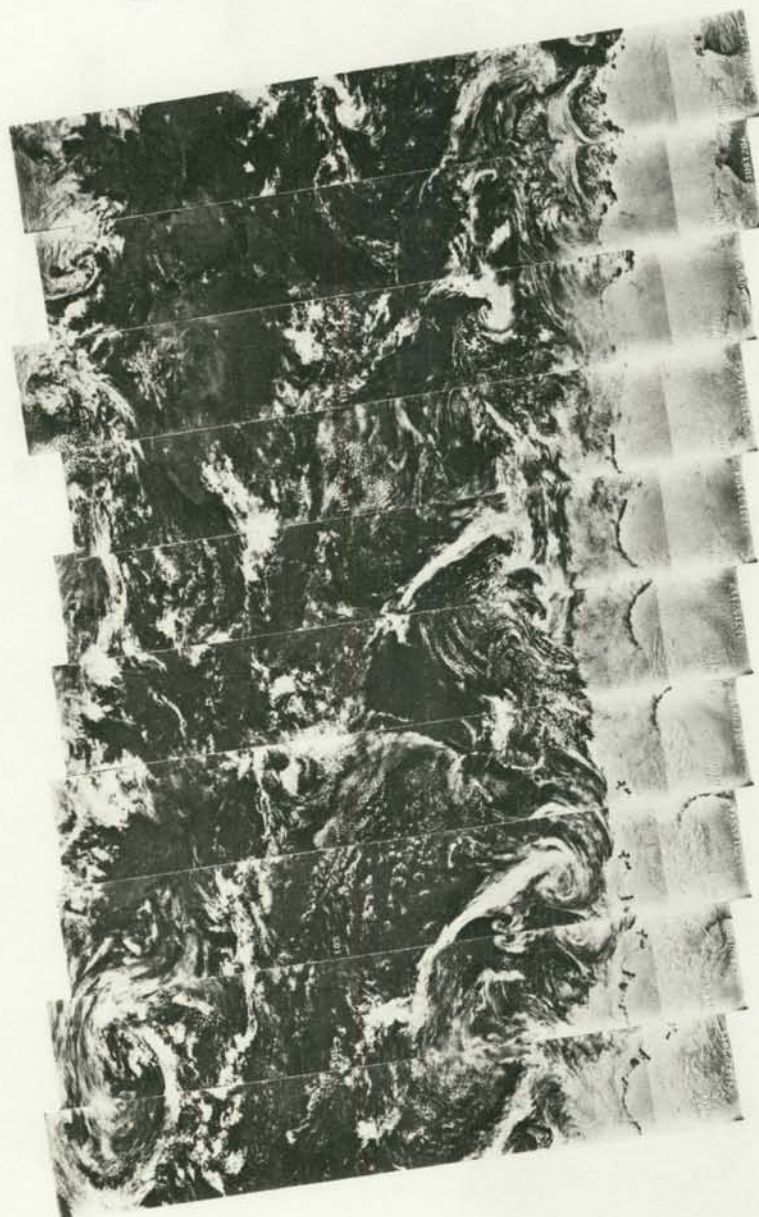
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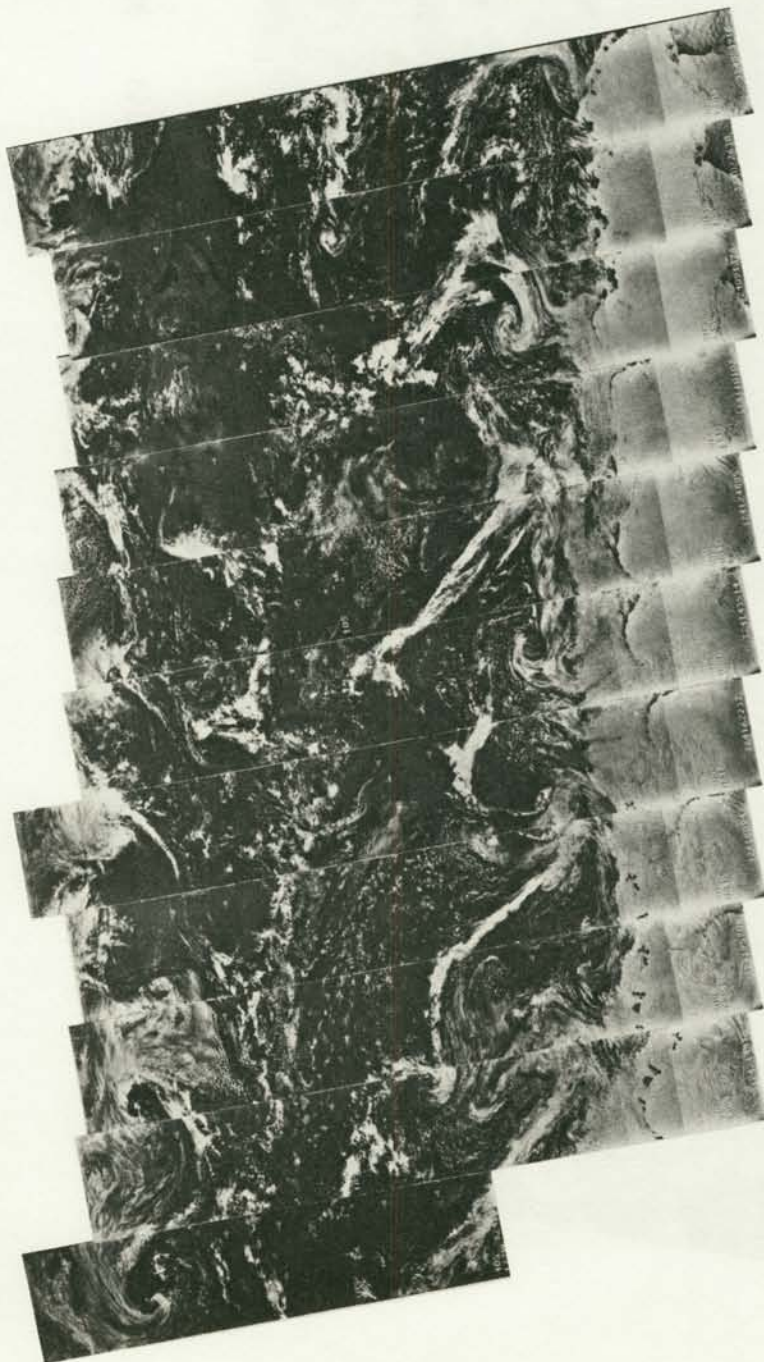
18 NOVEMBER 1970



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19 NOVEMBER 1970





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20 NOVEMBER 1970



3057 3056 3055 3054 3053 3052 3051 3050 3049 3048 3047 3046 3045

21 NOVEMBER 1970





3070 3069 3068 3067 3066 3065 3064 3063 3062 3061 3060 3059 3058

22 NOVEMBER 1970

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best available copy.

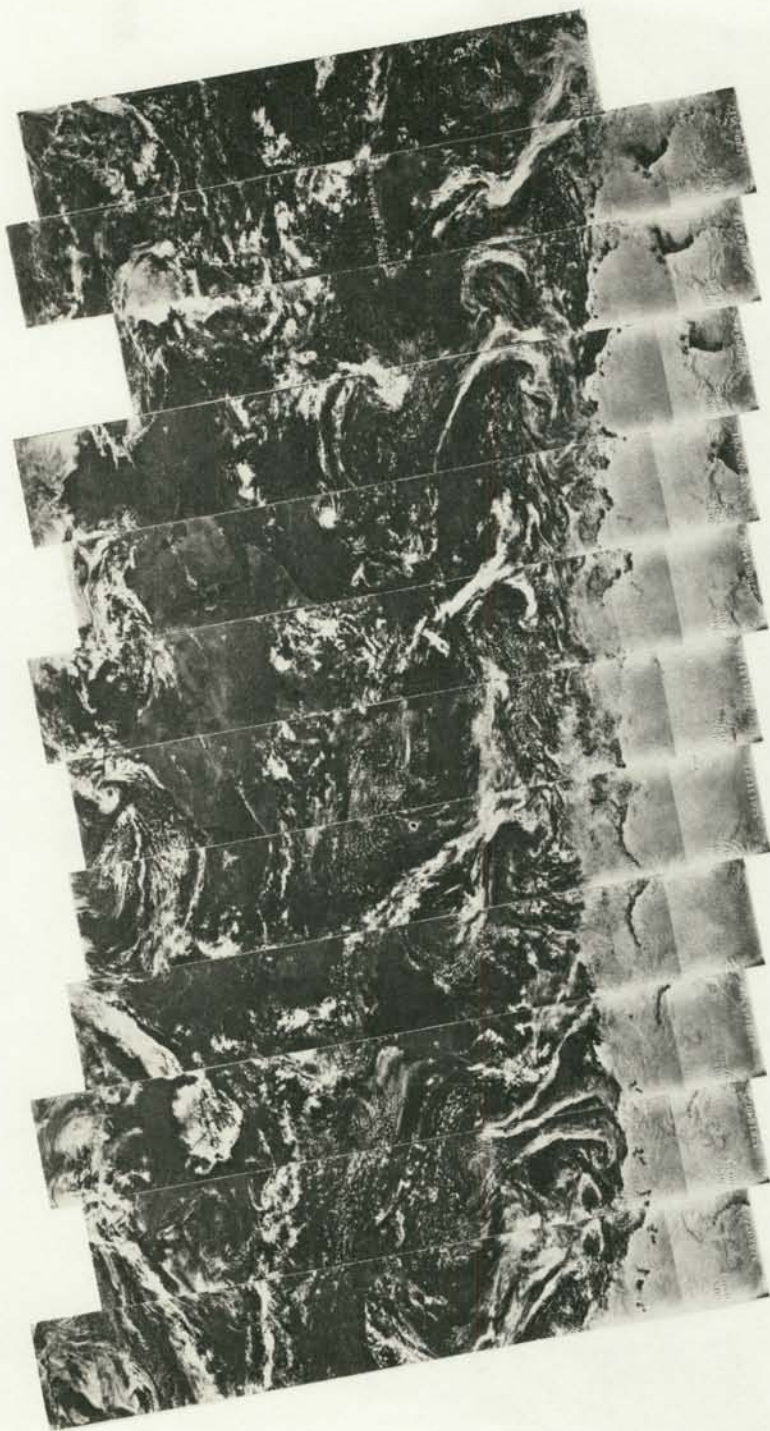




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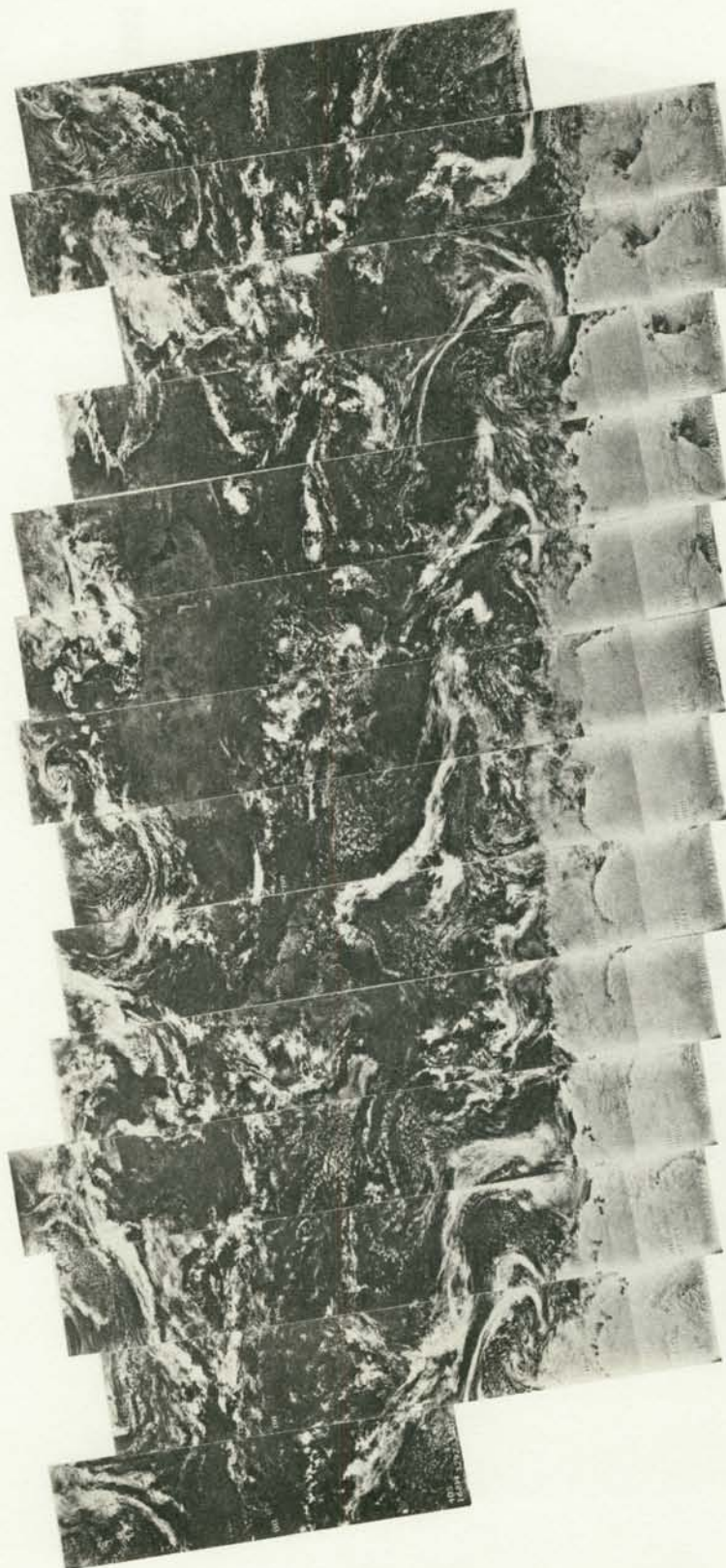
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24 NOVEMBER 1970



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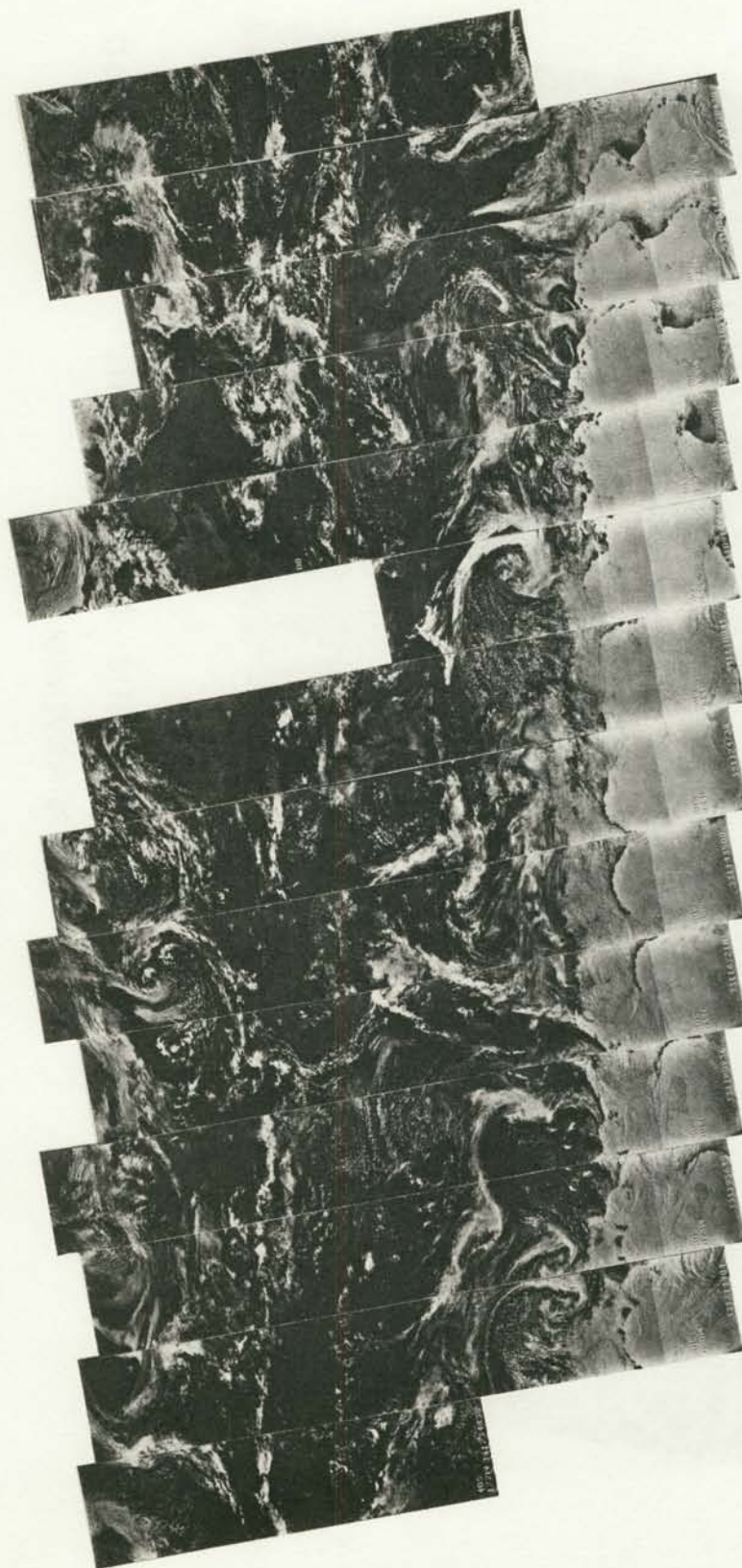
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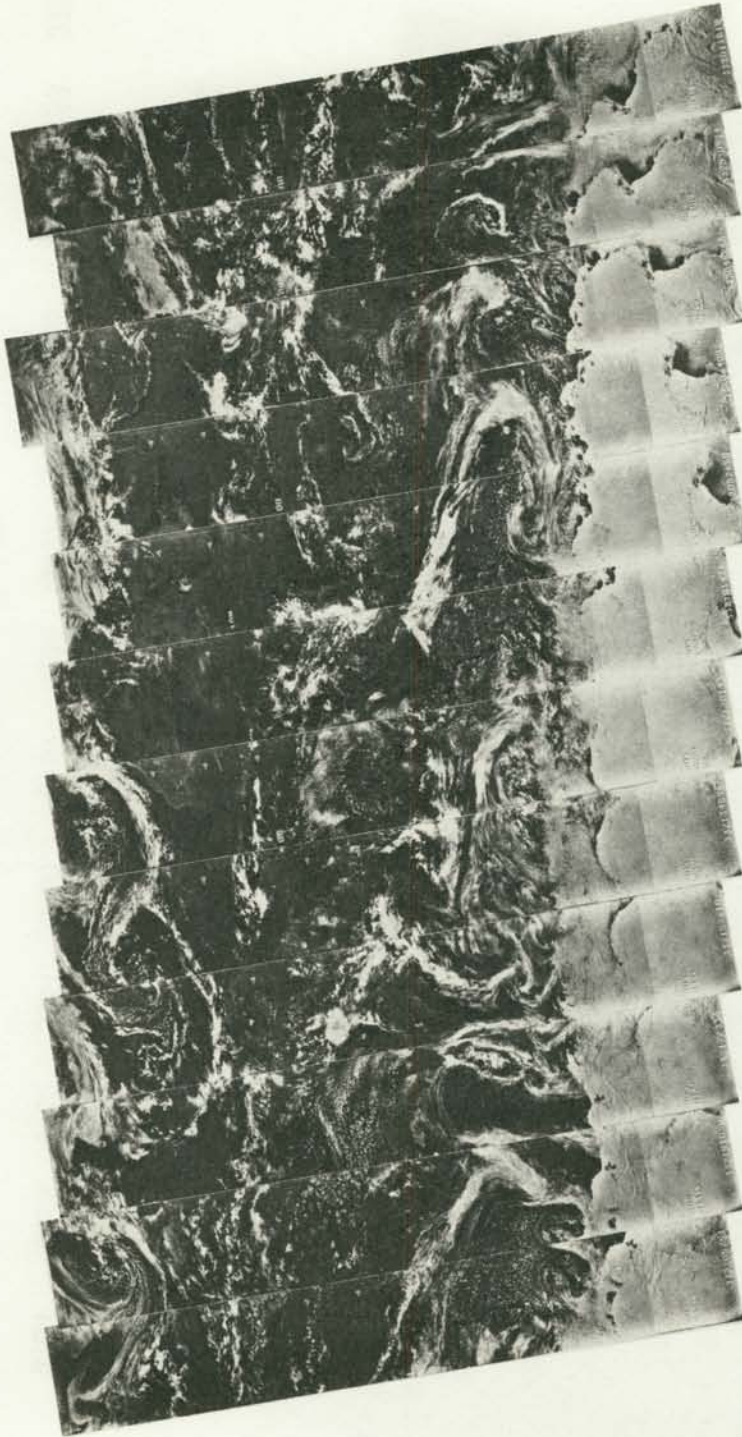
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27 NOVEMBER 1970





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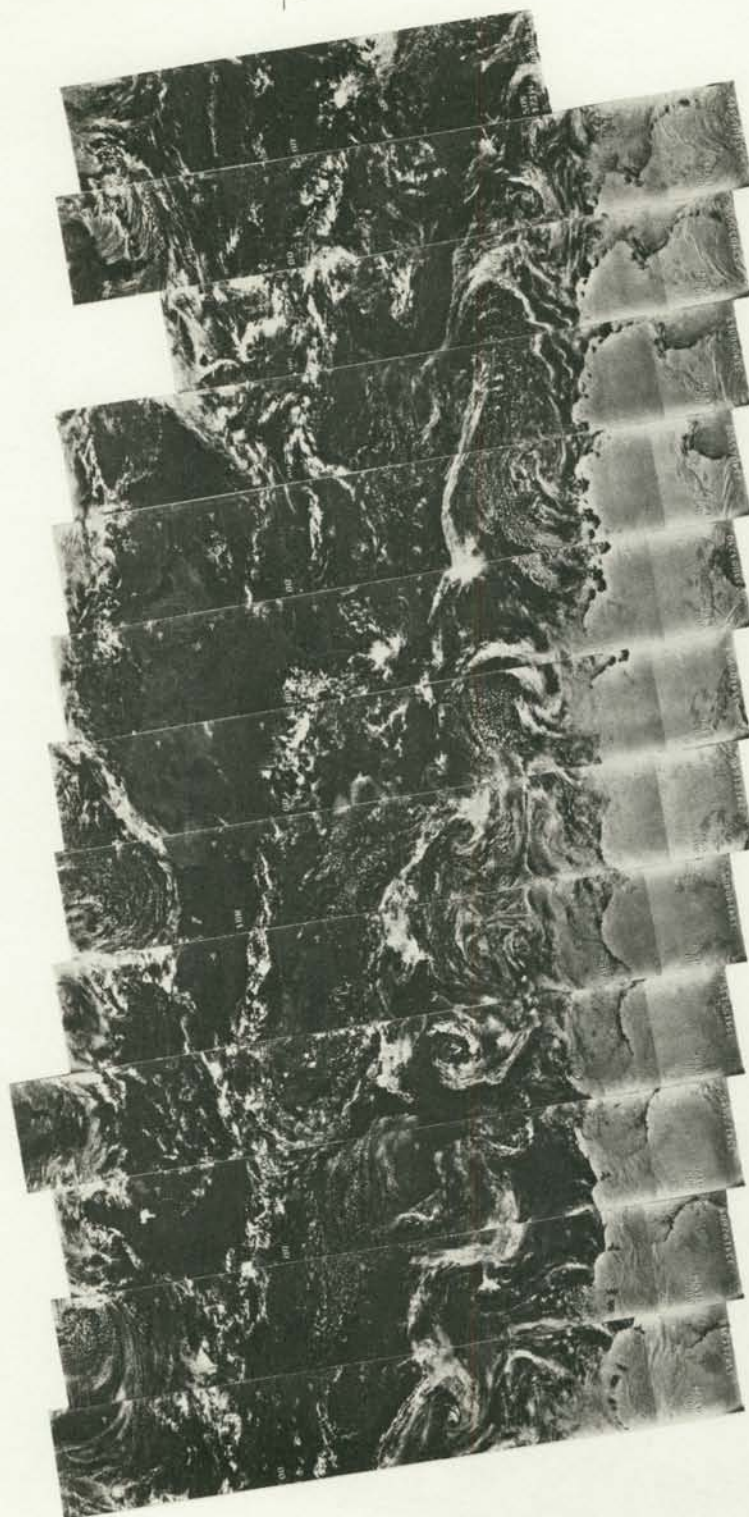
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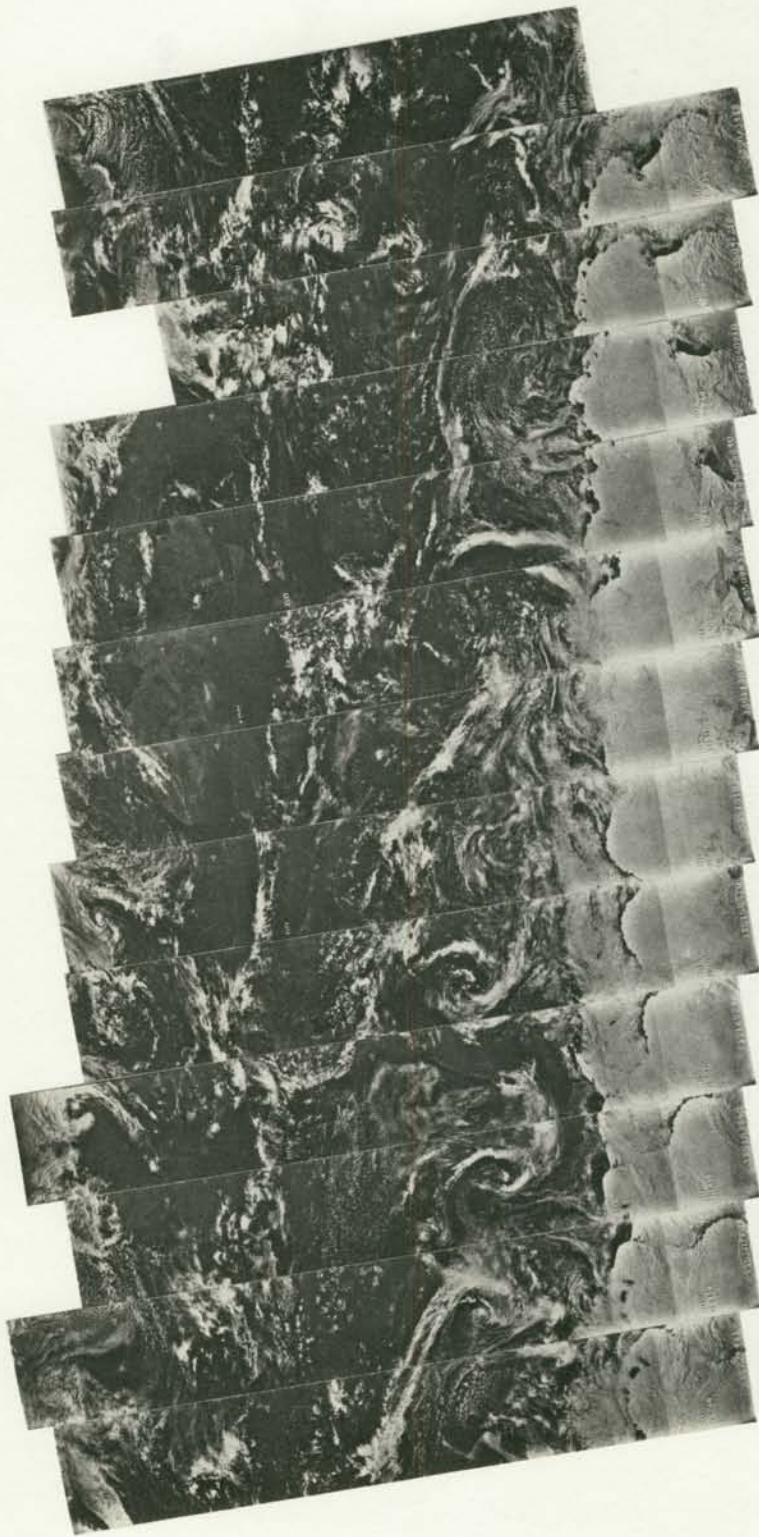
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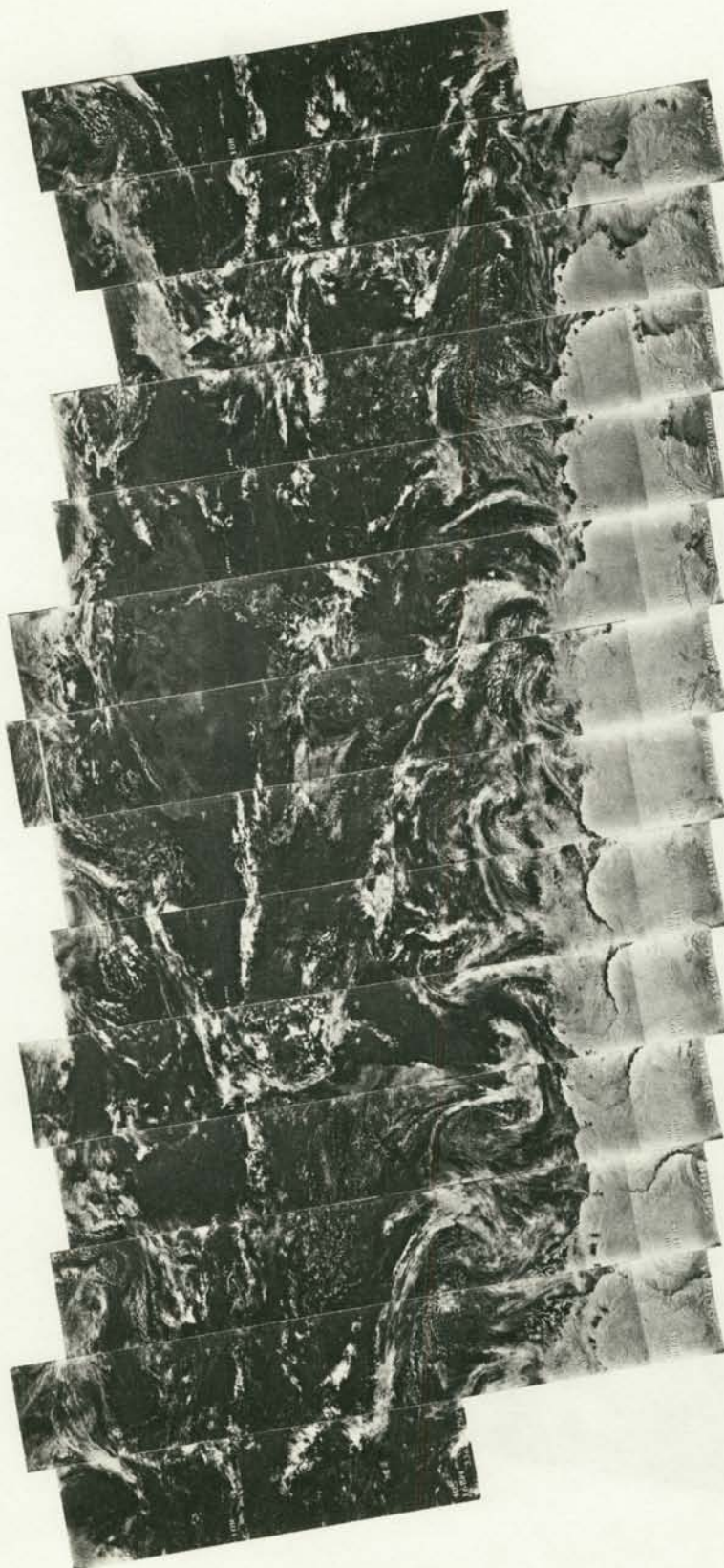
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1 DECEMBER 1970





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2 DECEMBER 1970



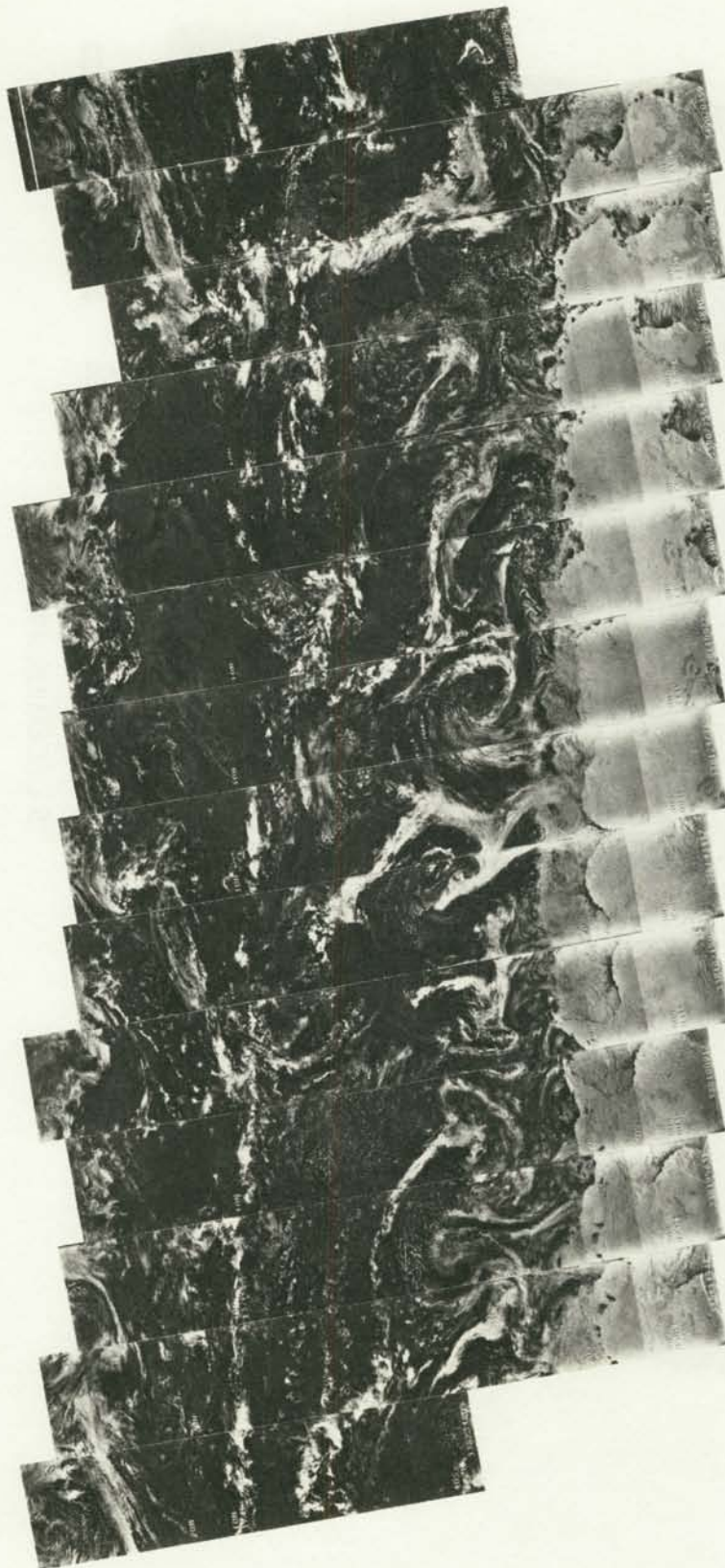
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3 DECEMBER 1970



3-#

3-35



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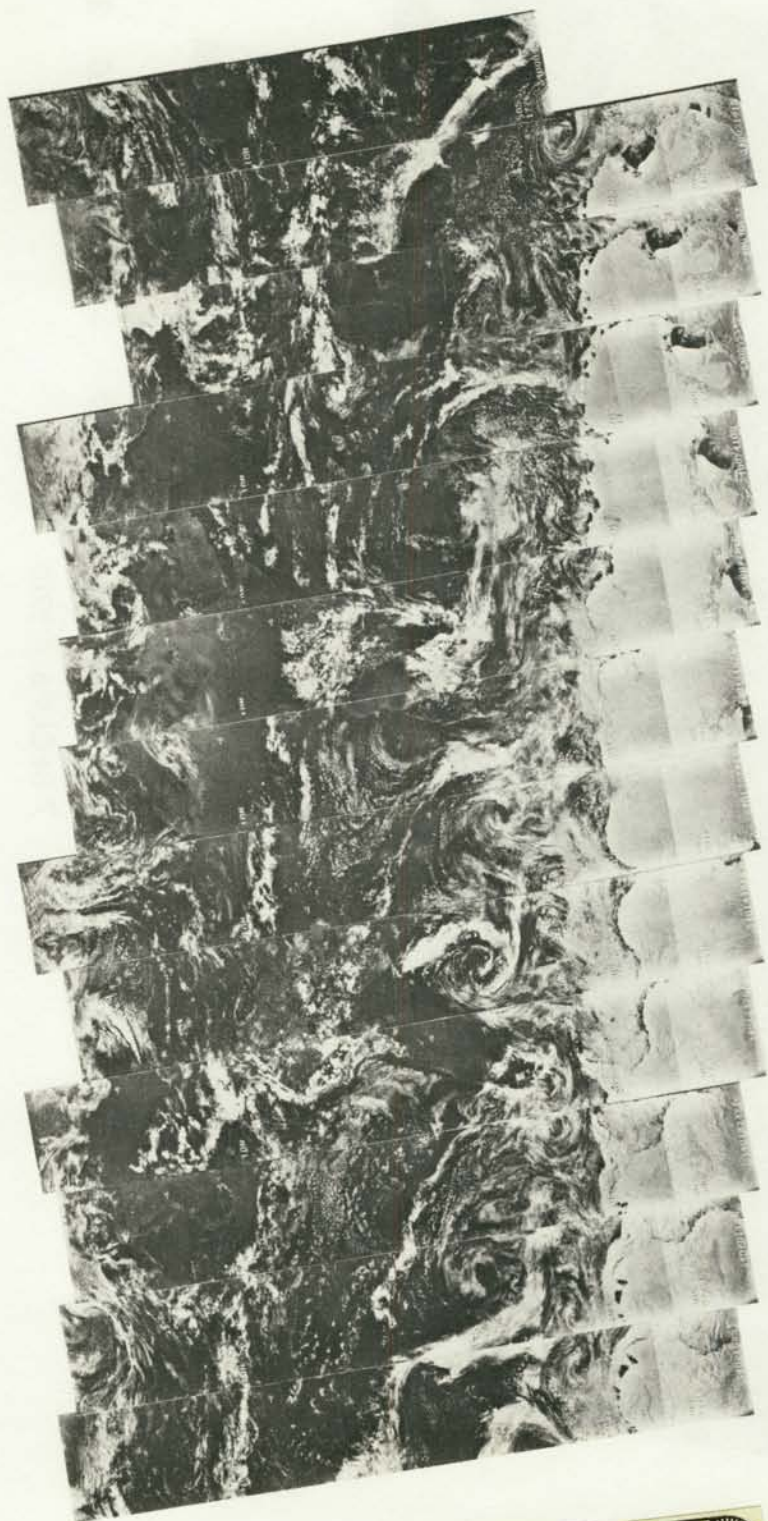
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5 DECEMBER 1970





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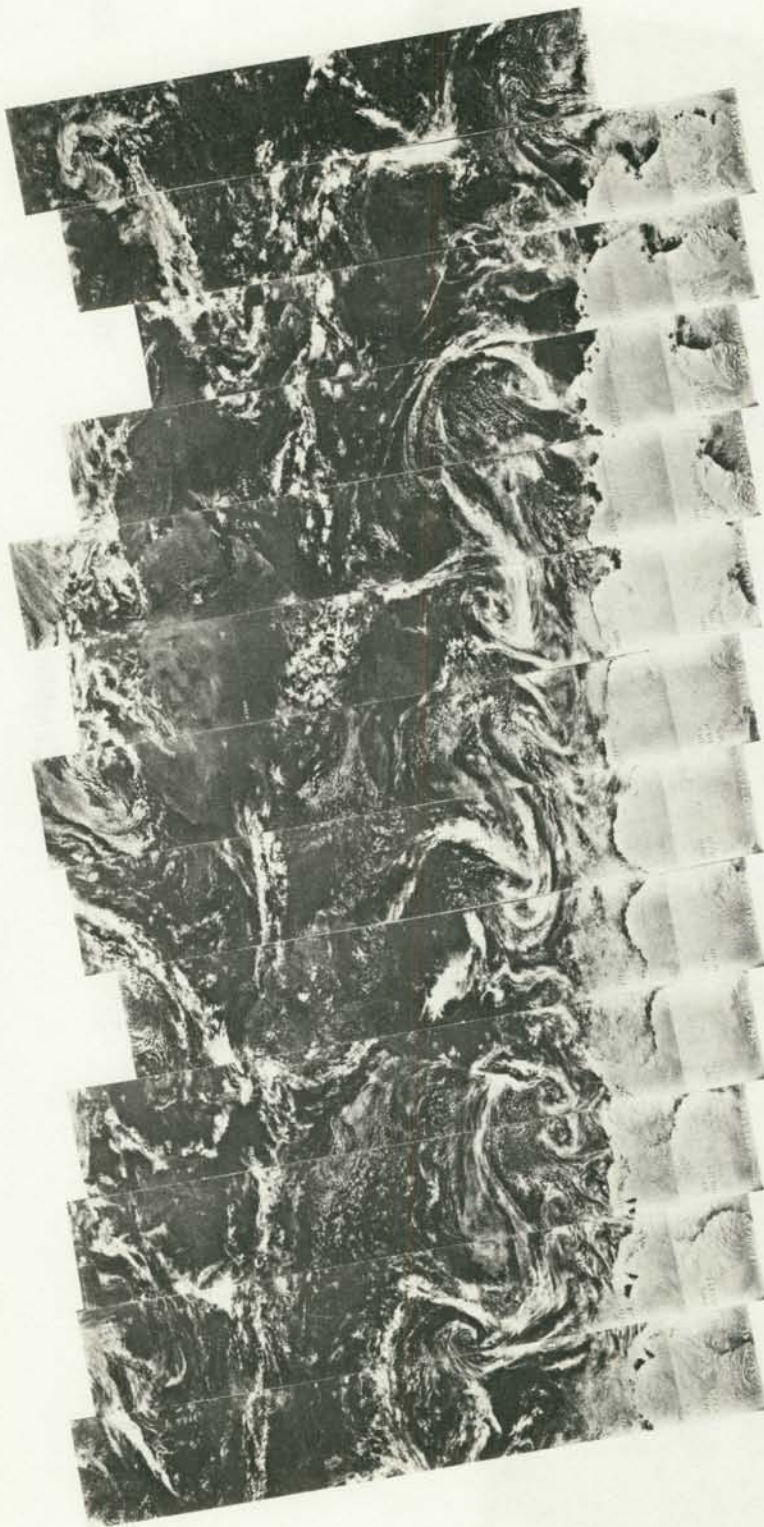
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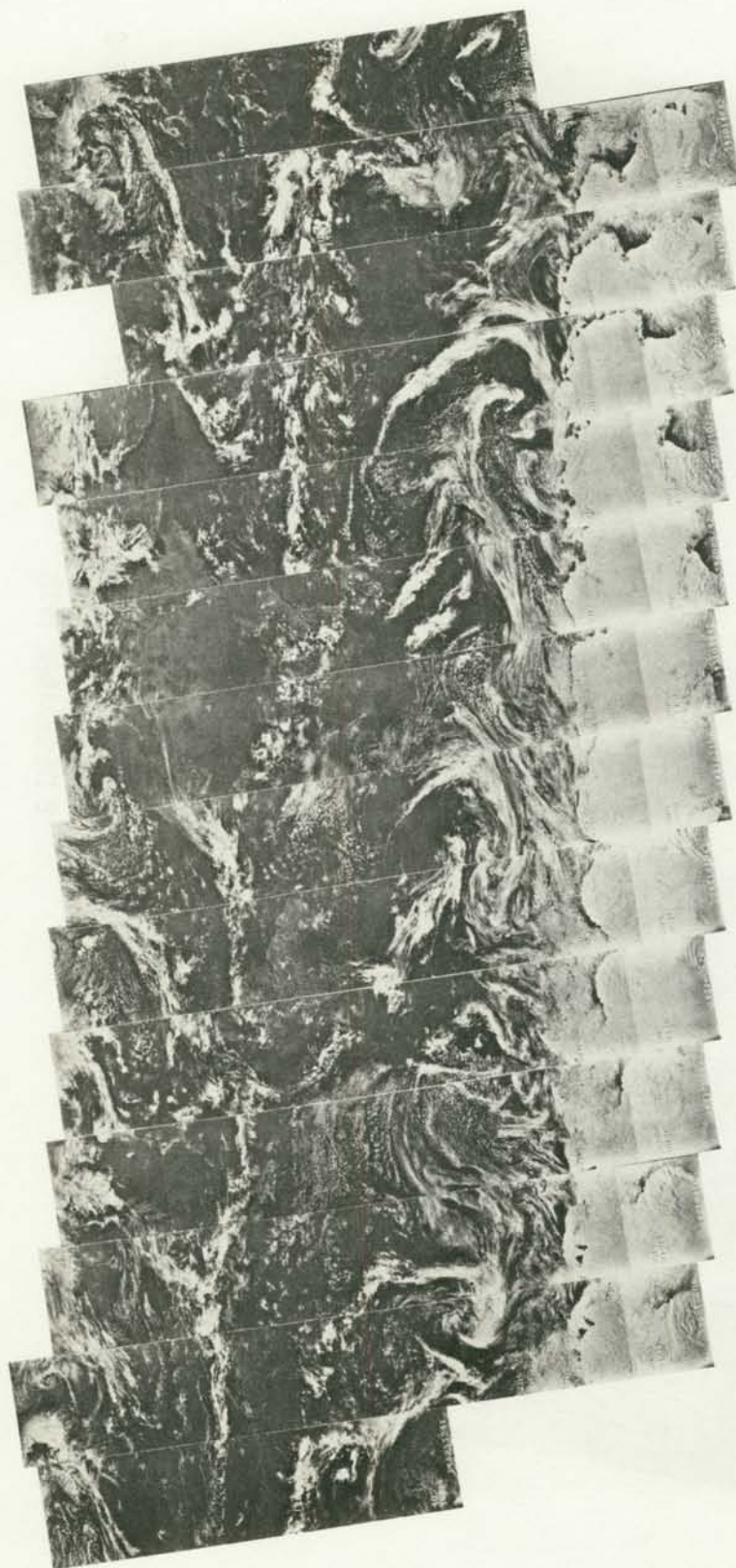
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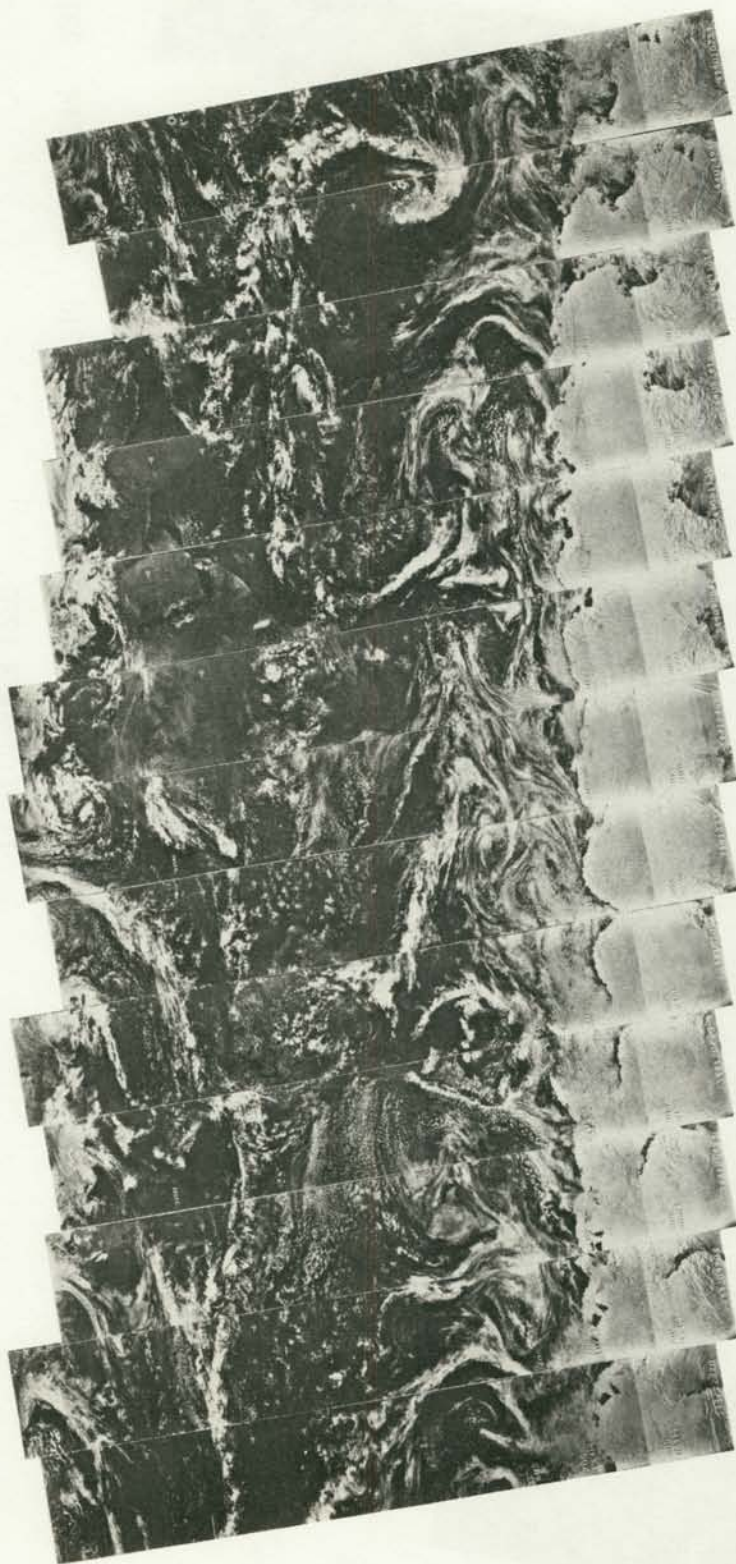
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9 DECEMBER 1970





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10 DECEMBER 1970



3326 3325 3324 3323 3322 3321 3320 3319 3318 3317 3316 3315 3314 3313

11 DECEMBER 1970





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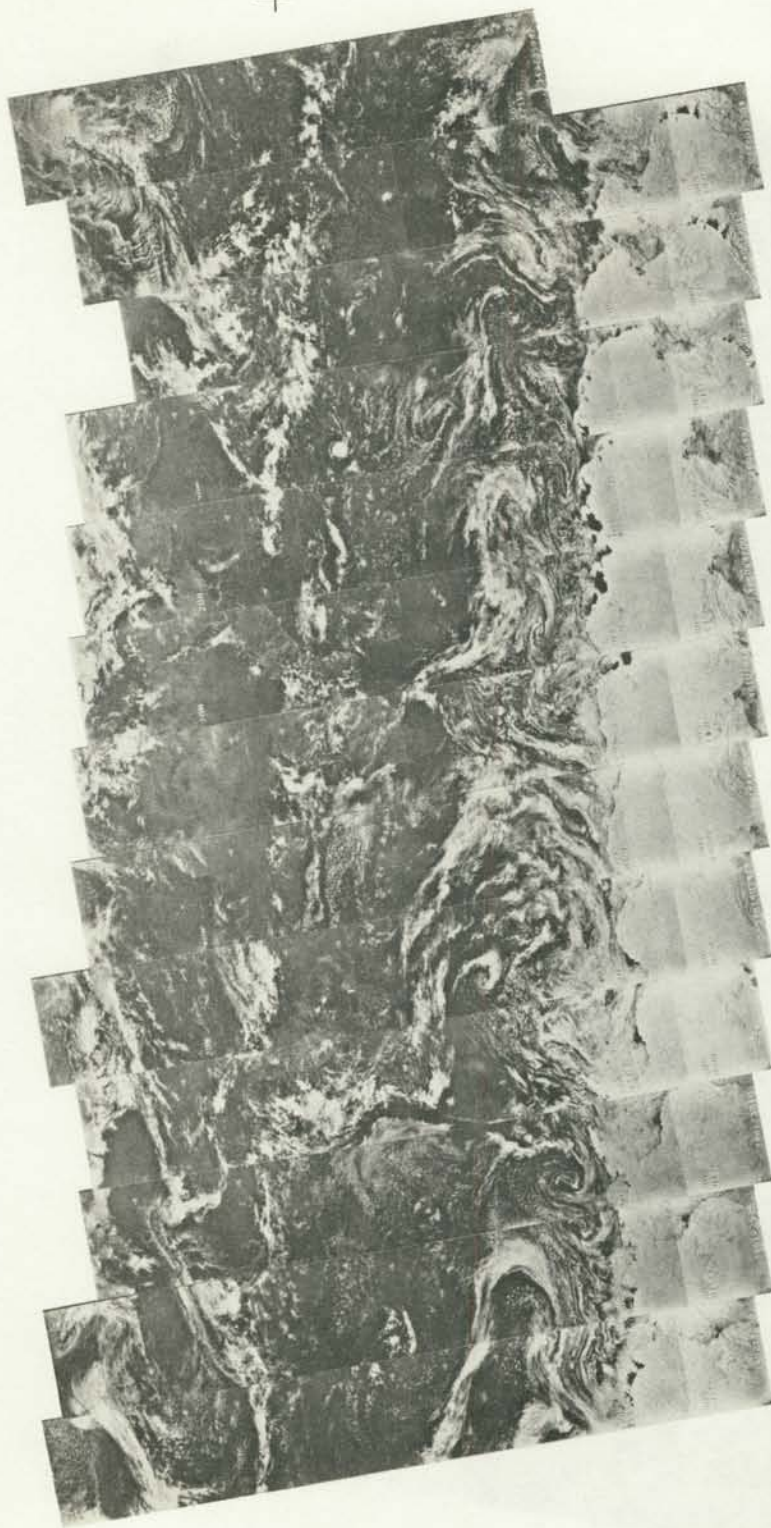
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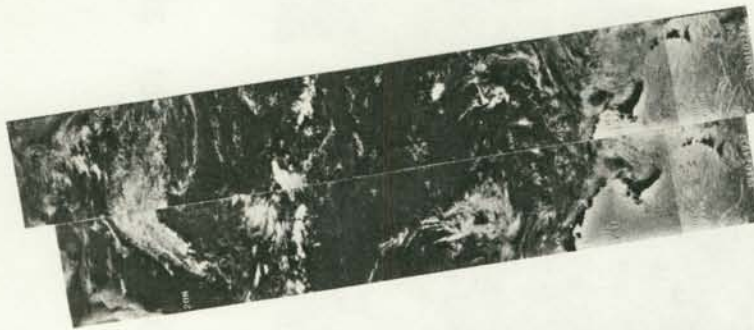
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16 DECEMBER 1970



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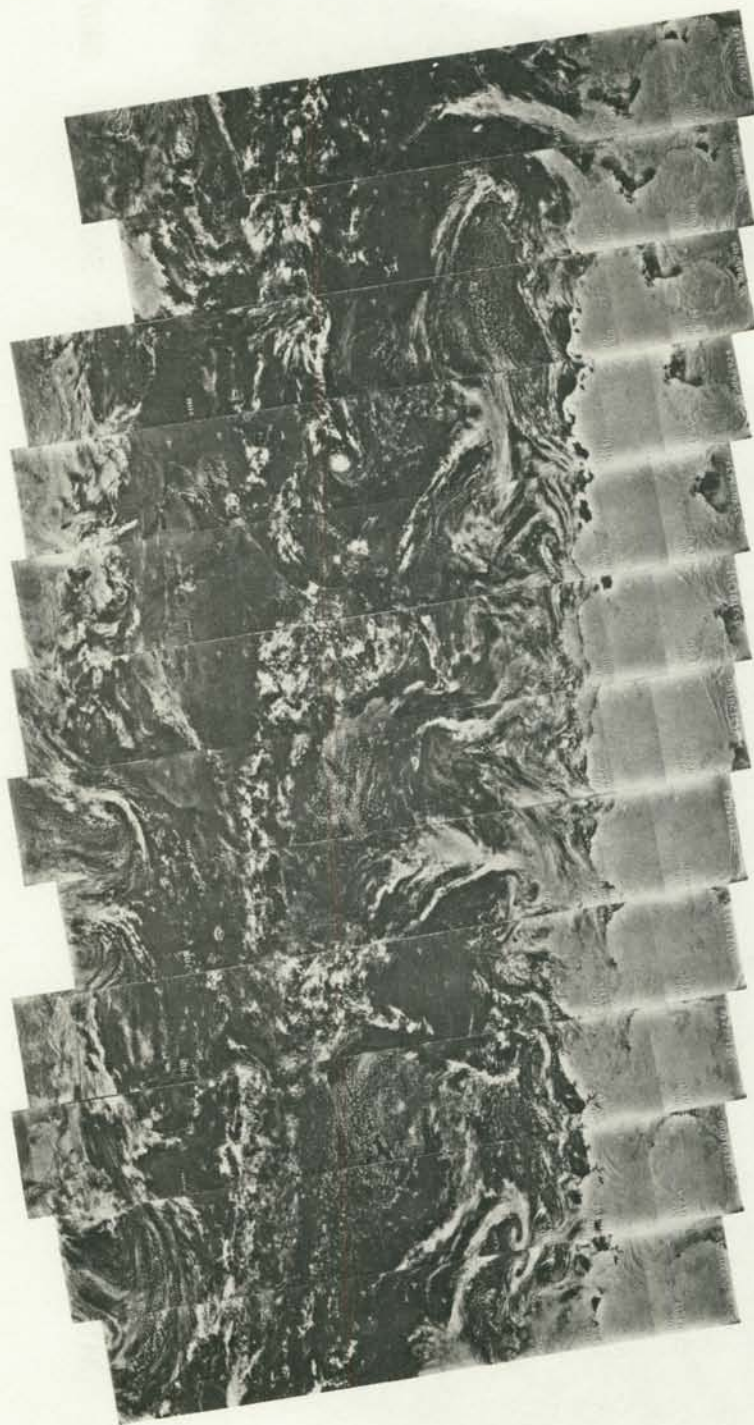
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18 DECEMBER 1970



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19 DECEMBER 1970





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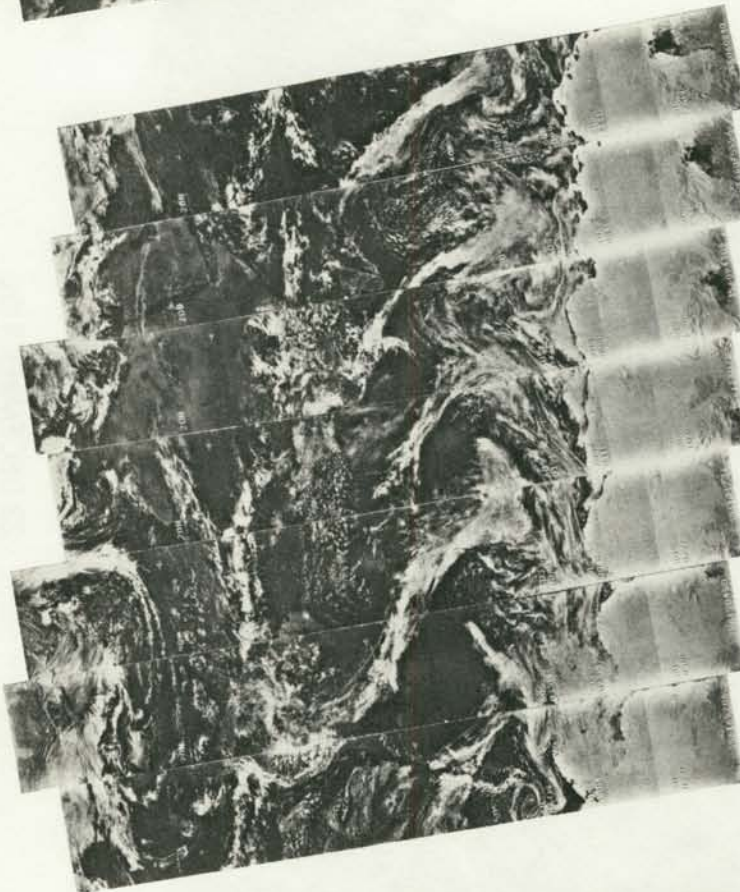
20 DECEMBER 1970



3460 3459 3458 3457 3456 3455 3454 3453 3452 3451 3450 3449 3448 3447

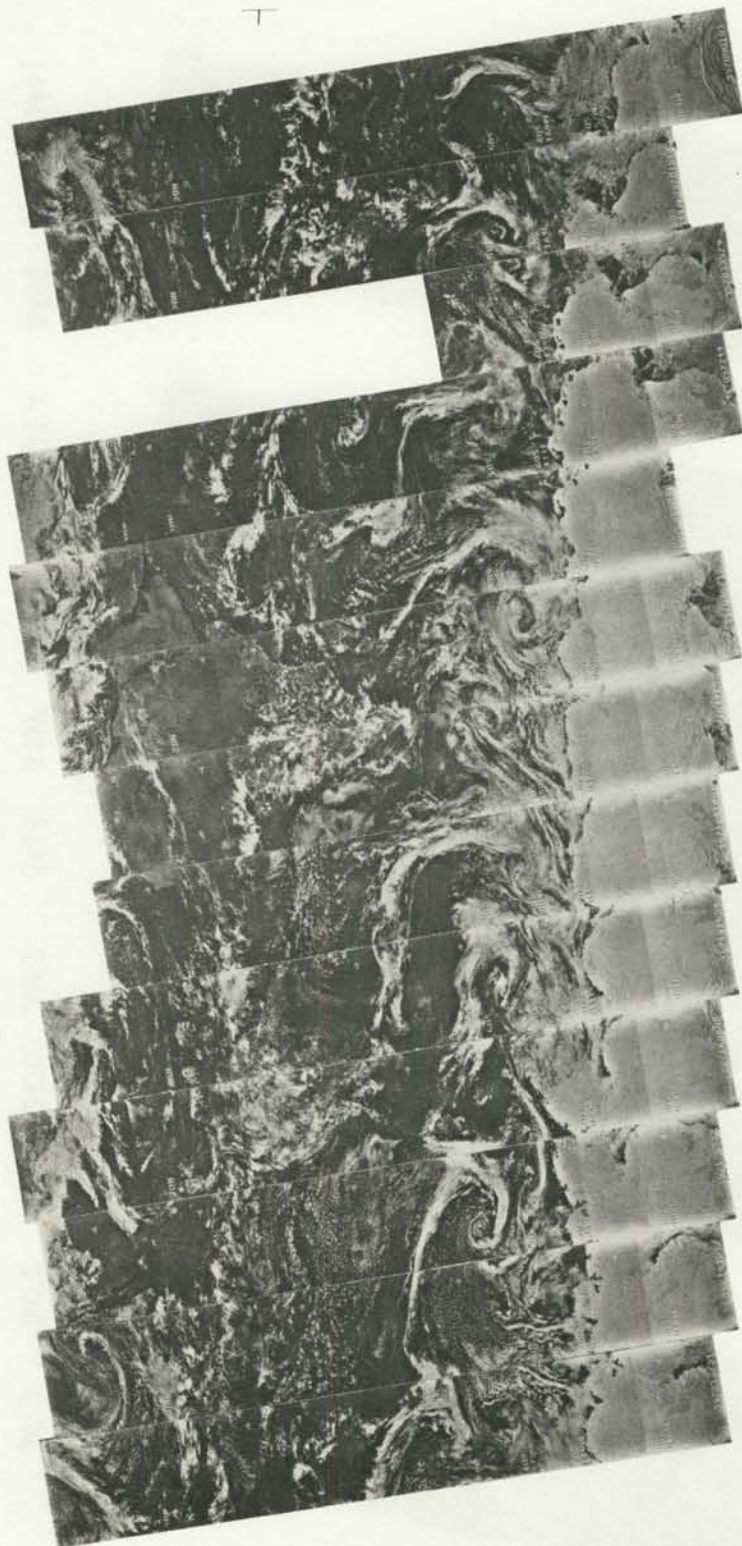
21 DECEMBER 1970





3473 3472 3471 3470 3469 3468 3467 3466 3465 3464 3463 3462 3461

22 DECEMBER 1970



3487 3486 3485 3484 3483 3482 3481 3480 3479 3478 3477 3476 3475 3474

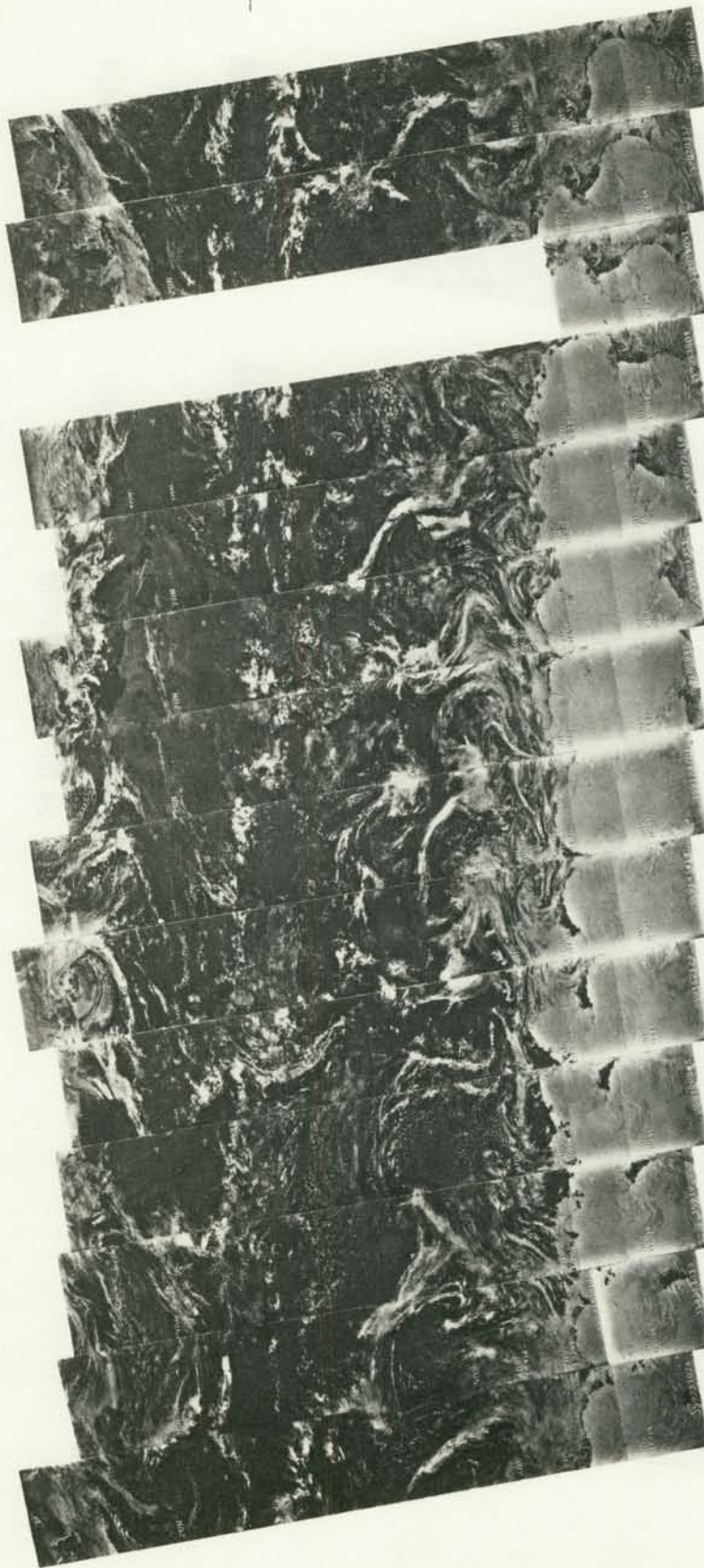
23 DECEMBER 1970





3500 3499 3498 3497 3496 3495 3494 3493 3492 3491 3490 3489 3488

24 DECEMBER 1970



3514 3513 3512 3511 3510 3509 3508 3507 3506 3505 3504 3503 3502 3501

25 DECEMBER 1970





3527 3526 3525 3524 3523 3522 3521 3520 3519 3518 3517 3516 3515

26 DECEMBER 1970

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3540 3539 3538 3537 3536 3535 3534 3533 3532 3531 3530 3529 3528

27 DECEMBER 1970



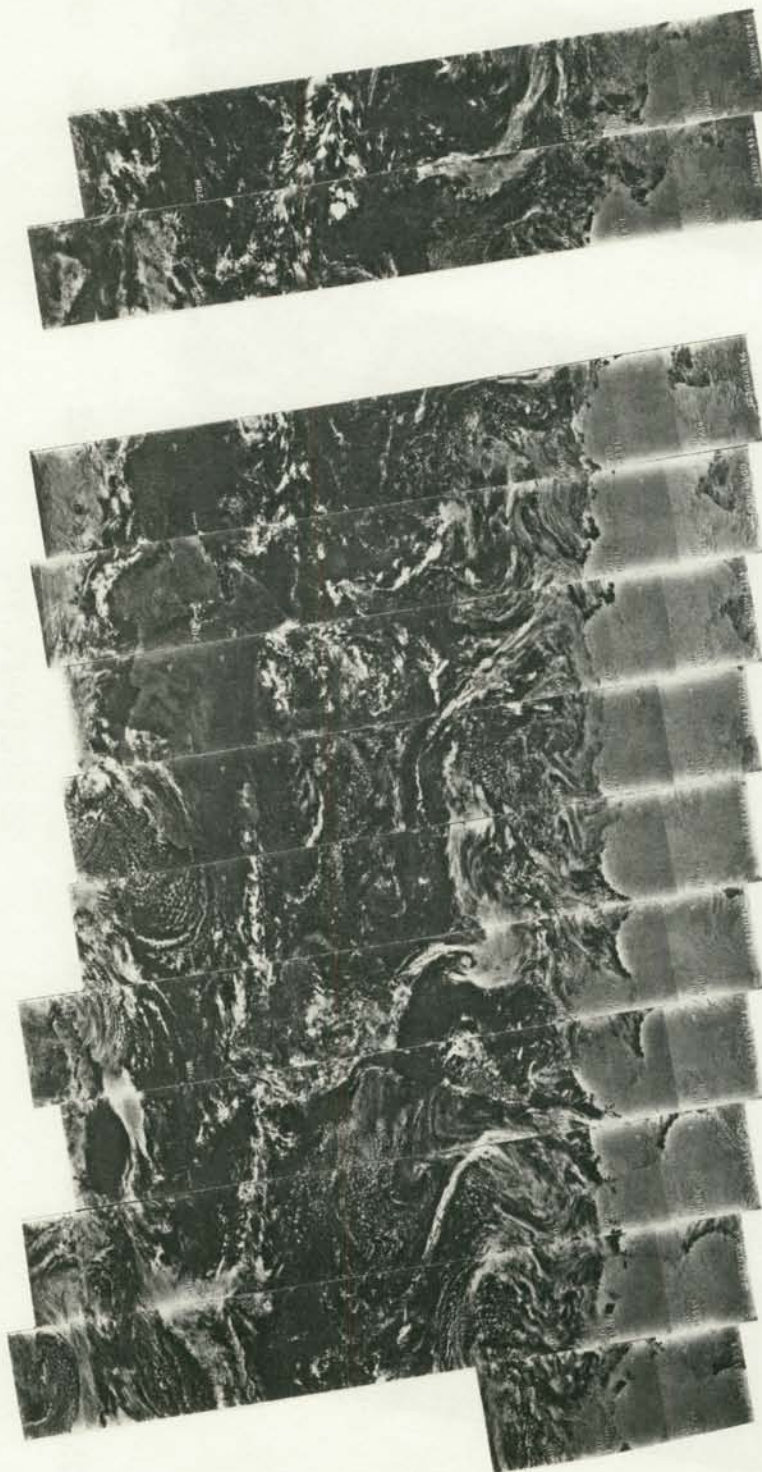


3554 3553 3552 3551 3550 3549 3548 3547 3546 3545 3544 3543 3542 3541

28 DECEMBER 1970

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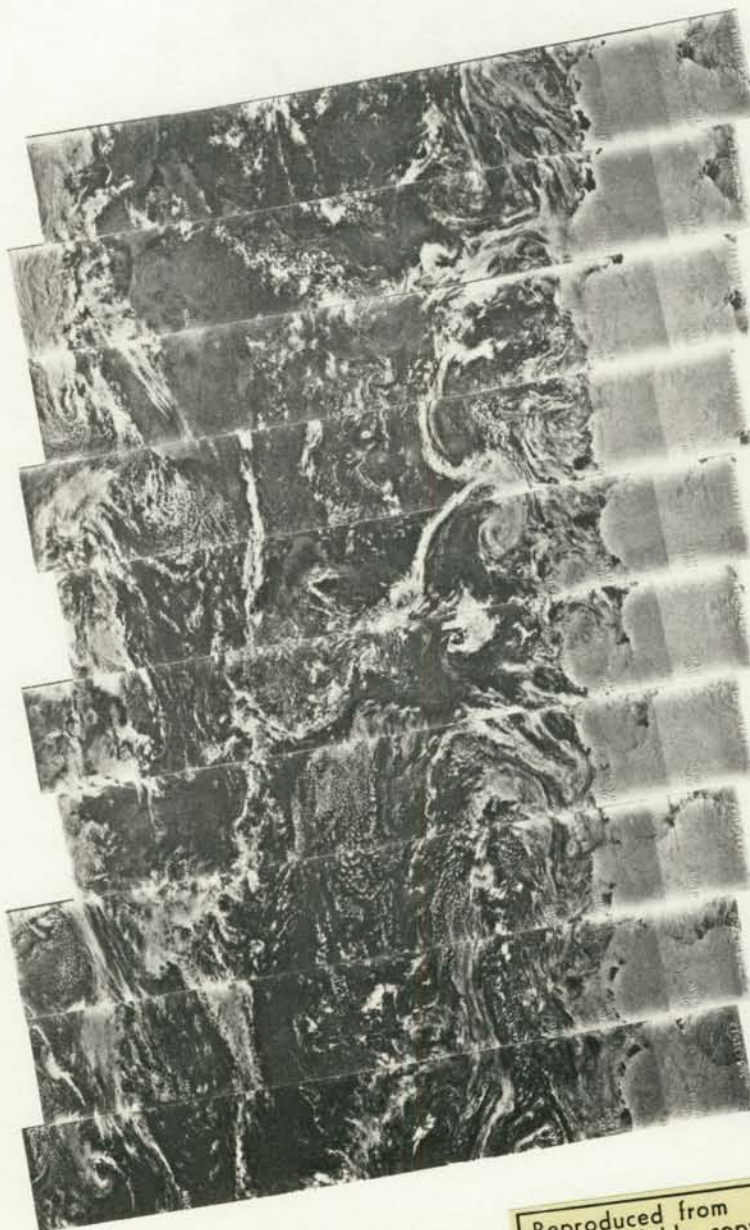




3567 3566 3565 3564 3563 3562 3561 3560 3559 3558 3557 3556 3555

29 DECEMBER 1970





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3581 3580 3579 3578 3577 3576 3575 3574 3573 3572 3571 3570 3569 3568

30 DECEMBER 1970



3594 3593 3592 3591 3590 3589 3588 3587 3586 3585 3584 3583 3582

31 DECEMBER 1970

## SECTION 4

### TEMPERATURE-HUMIDITY INFRARED RADIOMETER MONTAGES

This section pictorially documents the data from the Temperature-Humidity Infrared Radiometer (THIR) experiment carried on the Nimbus 4 Meteorological Satellite. Section 4.1 contains all nighttime THIR 11.5 and 6.7 micrometer montages and Section 4.2 contains all daytime THIR 11.5 micrometer montages, arranged in chronological order. No daytime 6.7 micrometer montages are shown since this channel was on only for the brief periods shown in Table 4-2. Key latitudes can be read from the superposed grids. Grid points are identified where each swath crosses 60°N, 30°N, EQUATOR, 30°S and 60°S.

Vellum Location Guide overlays, attached to the back of this document, are to be used for general orientation with the data presented in each THIR montage. Proper alignment of the overlay grid is accomplished by matching the grid indices on the equator with the two "T" marks on each montage.

Each THIR montage is provided with a time scale to determine the Universal Time limits required to order processed THIR grid print maps (see p. 57 Nimbus IV User's Guide). The time scale determines the number of minutes from ascending (daytime data) or descending (nighttime data) node time for the interval of data required. To obtain the Universal Time for daytime data, the measured time is to be added to the ascending node time in the northern hemisphere and subtracted in the southern hemisphere. For nighttime data, the measured time is to be subtracted from the descending node time in the northern hemisphere and added in the southern hemisphere. The ascending and descending node times are given in Section 2.

The following alternate procedure also establishes Universal Time limits. Knowing the latitude limits of the study area, the minutes from ascending or descending node can be directly interpolated from Table 4-1. These time values can then be added to or subtracted from node times given in Section 2.

A description of the THIR experiment and instructions for ordering THIR data may be found in the Nimbus IV User's Guide, Section 3.

Table 4-1

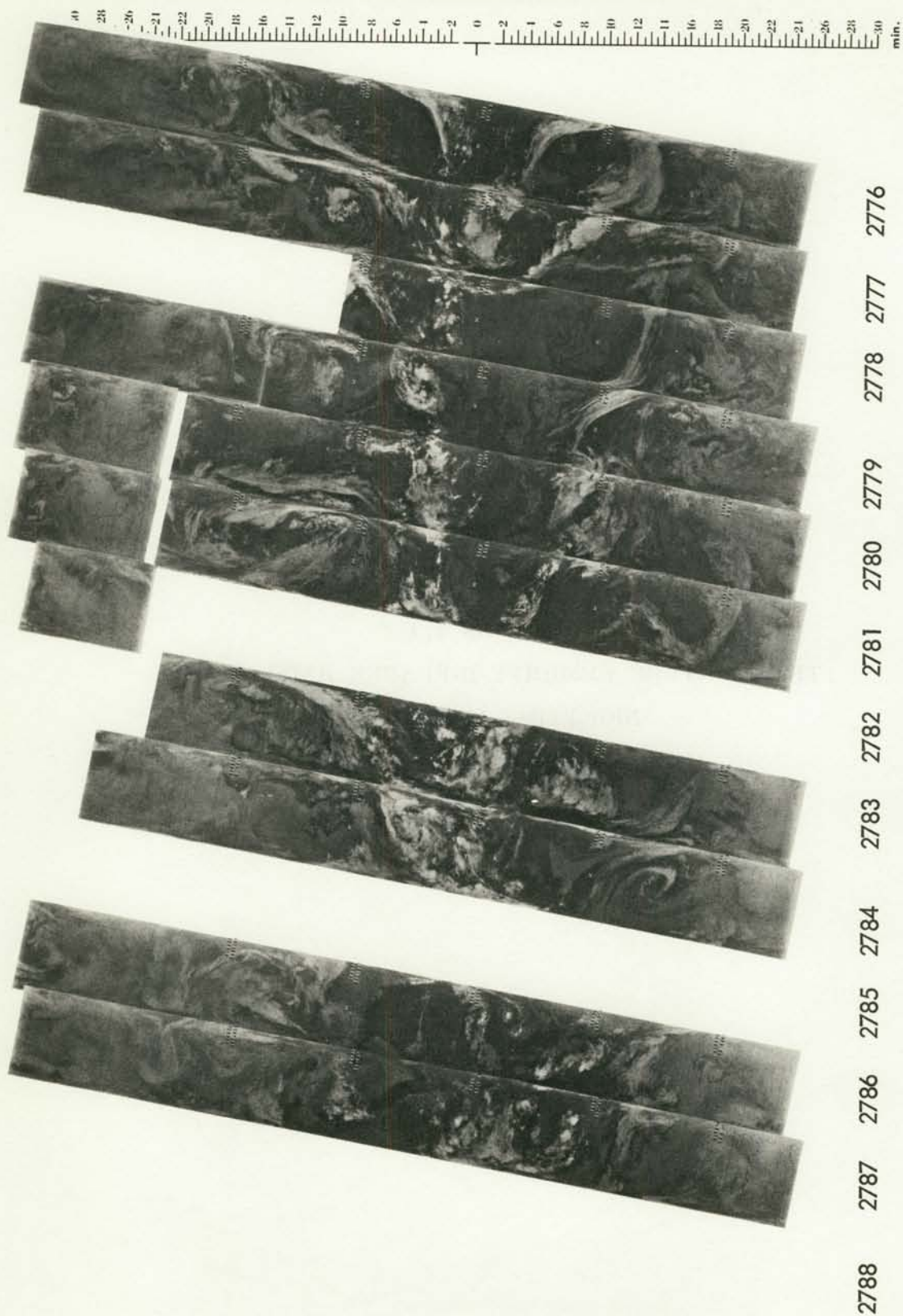
Latitude Versus Minutes from  
Ascending or Descending Node

Latitude from AN or DN	Minutes and Seconds from AN or DN
0	0:00
5	1:31
10	3:02
15	4:33
20	6:03
25	7:34
30	9:05
35	10:36
40	12:08
45	13:40
50	15:12
55	16:44
60	18:18
65	19:52
70	21:33
75	23:26
78	24:44
80.1	26:49
78	29:00
75	30:09
70	31:51
65	33:35

**SECTION 4.1**  
**TEMPERATURE HUMIDITY INFRARED RADIOMETER**  
**NIGHTTIME MONTAGES**



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1 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

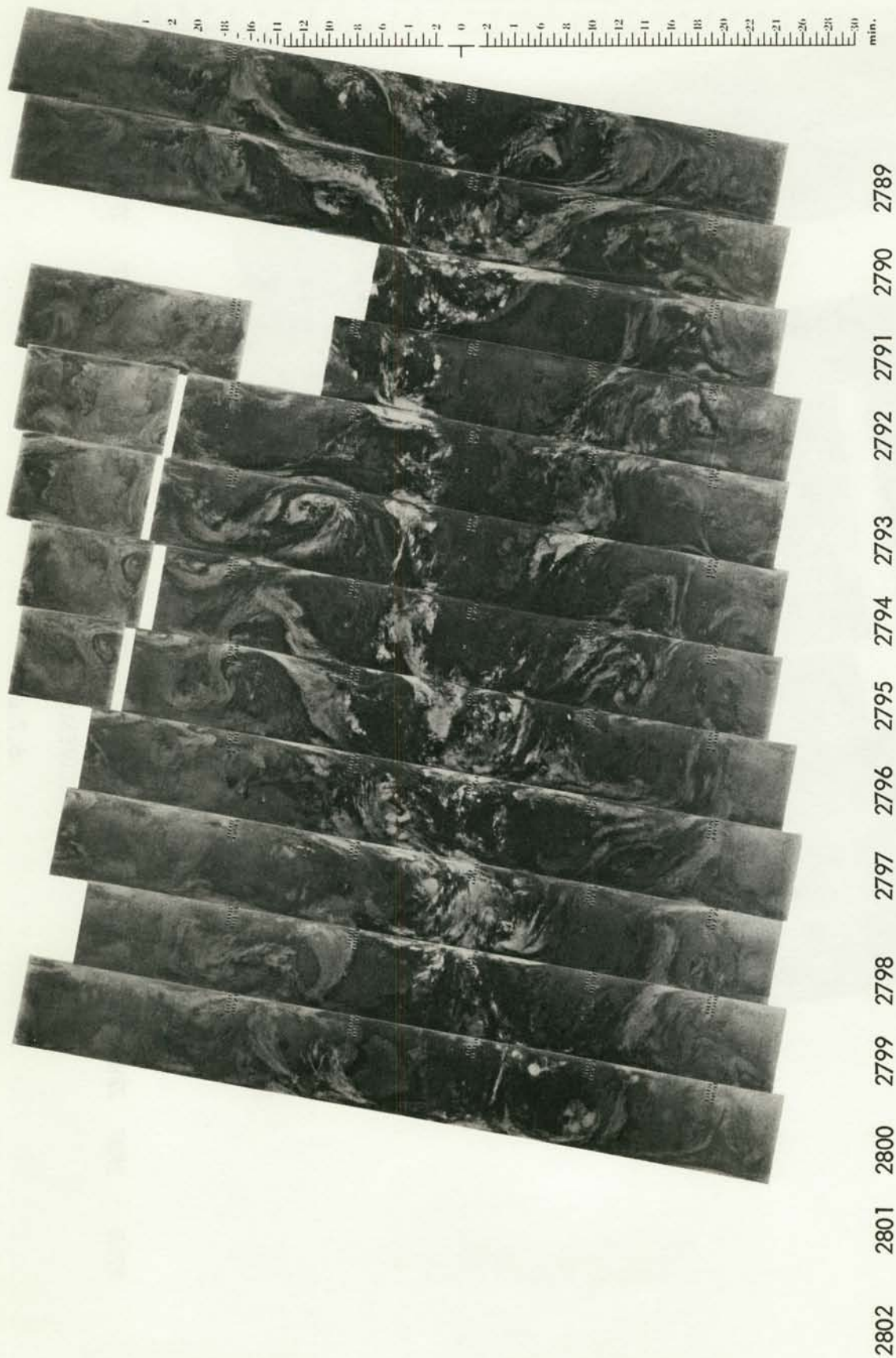
4-5



1 NOVEMBER 1970

6.7  $\mu\text{m}$





2 NOVEMBER 1970

11.5  $\mu$ m

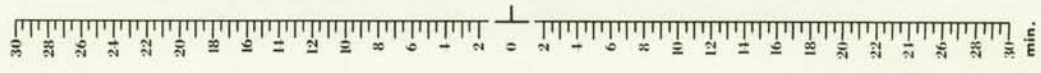


2802 2801 2800 2799 2798 2797 2796 2795 2794 2793 2792 2791 2790 2789

2 NOVEMBER 1970

6.7  $\mu$ m

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best available copy.





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



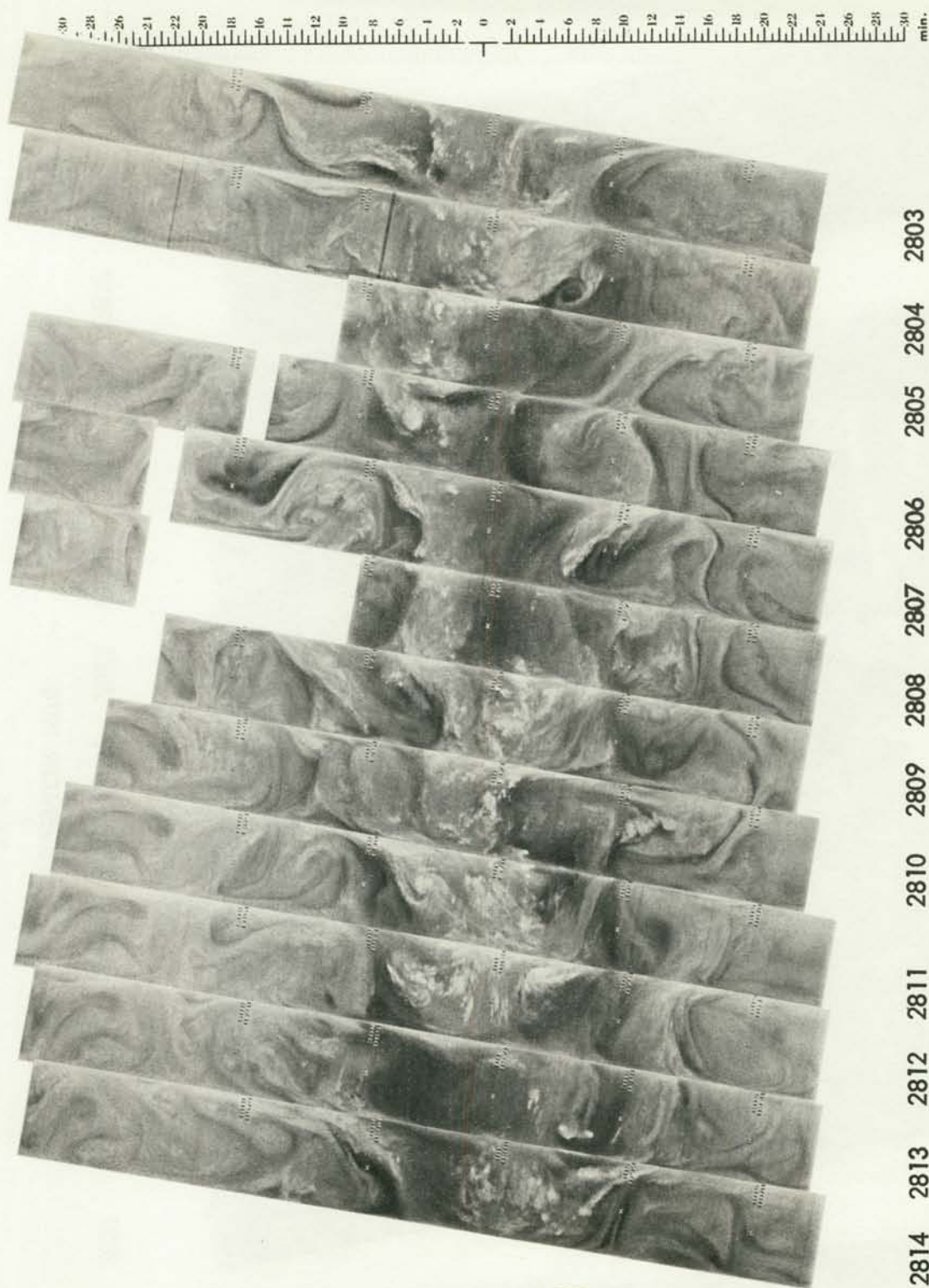
2815 2814 2813 2812 2811 2810 2809 2808 2807 2806 2805 2804 2803

3 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.





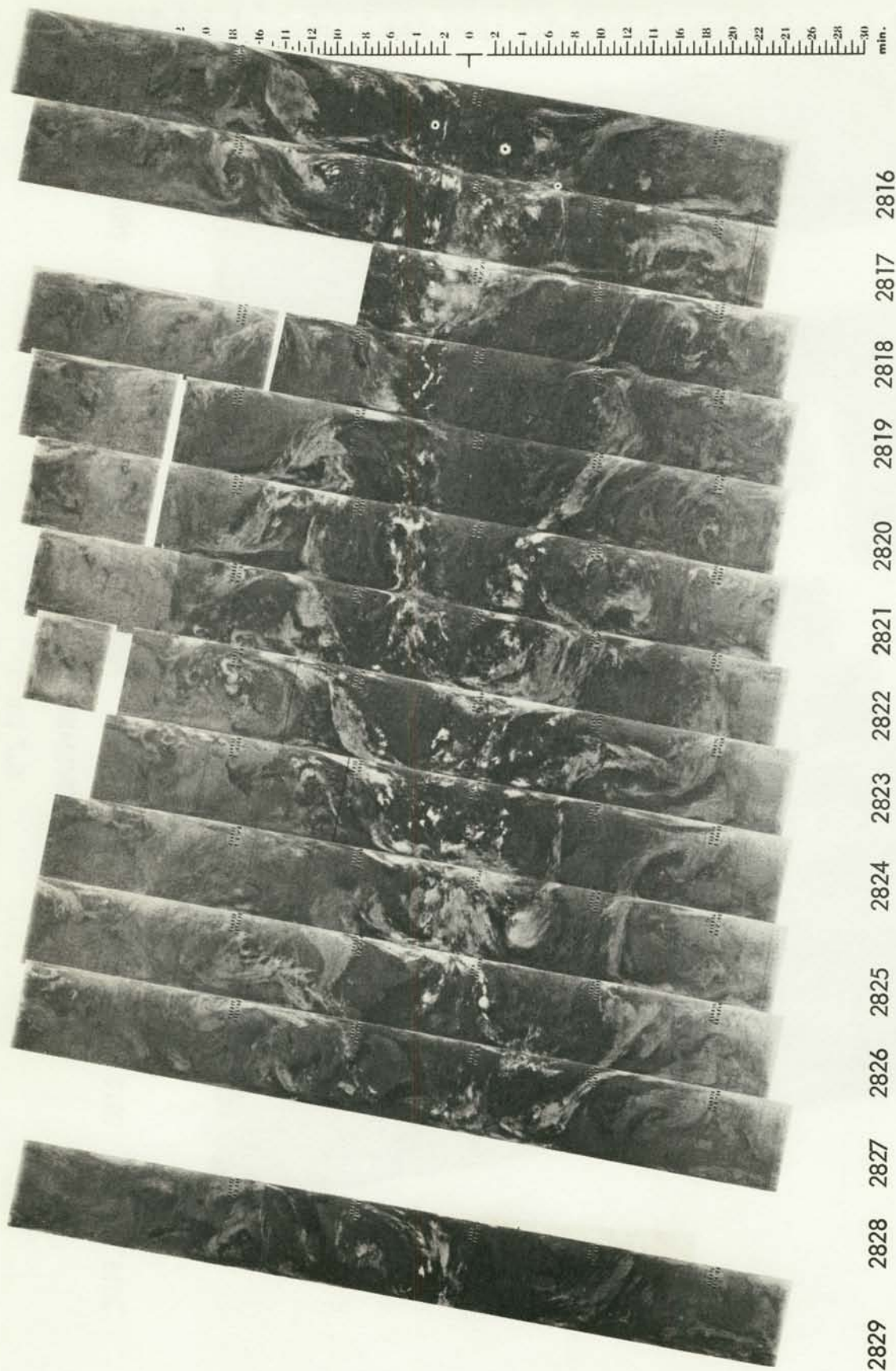
2815 2814 2813 2812 2811 2810 2809 2808 2807 2806 2805 2804 2803

3 NOVEMBER 1970

6.7  $\mu$ m

Reproduced from  
best available copy.

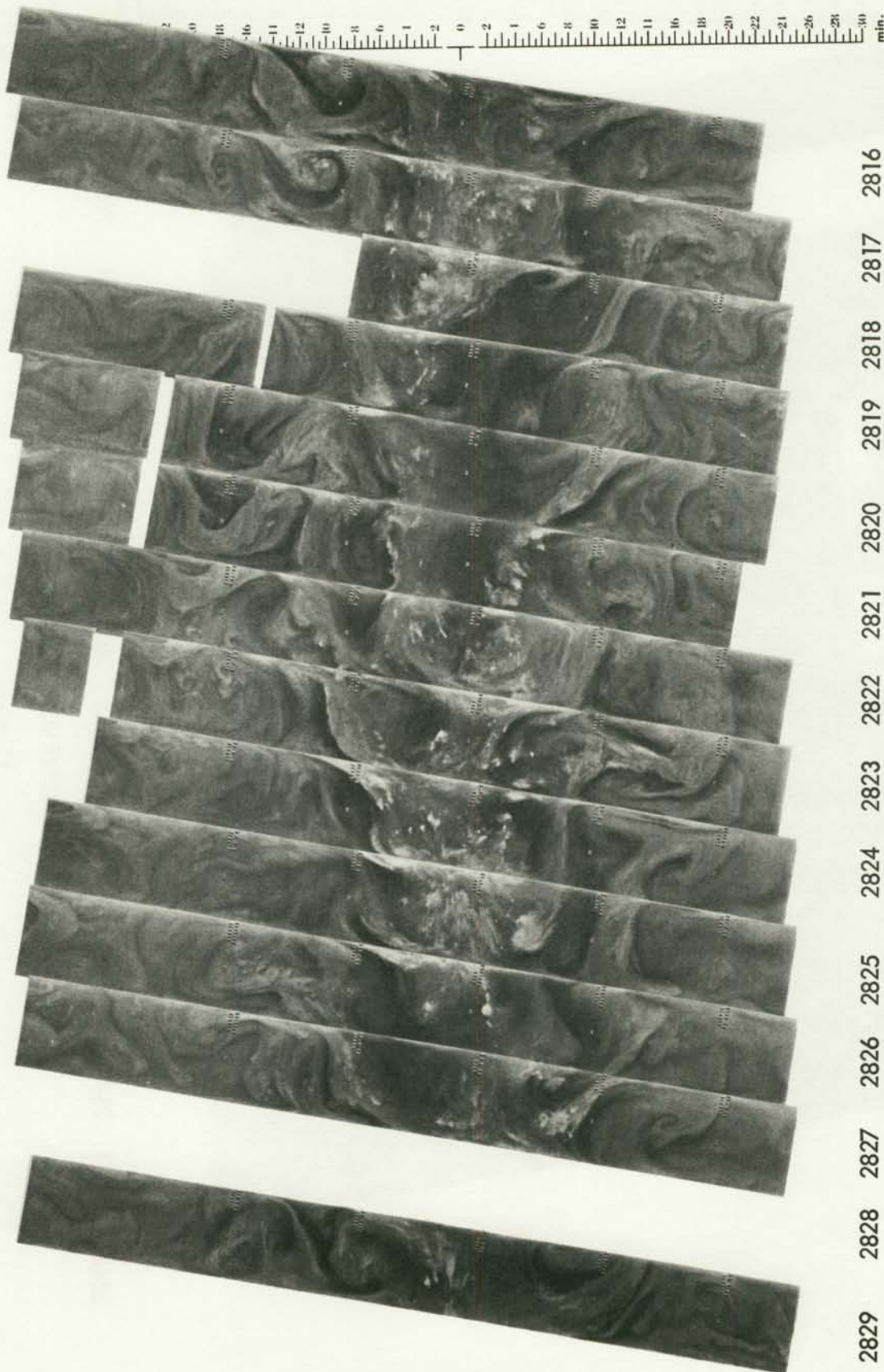






30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-11



4 NOVEMBER 1970

6.7  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



2842 2841 2840 2839 2838 2837 2836 2835 2834 2833 2832 2831 2830

5 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



2842 2841 2840 2839 2838 2837 2836 2835 2834 2833 2832 2831 2830

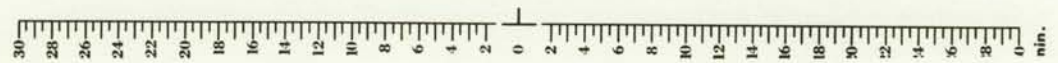
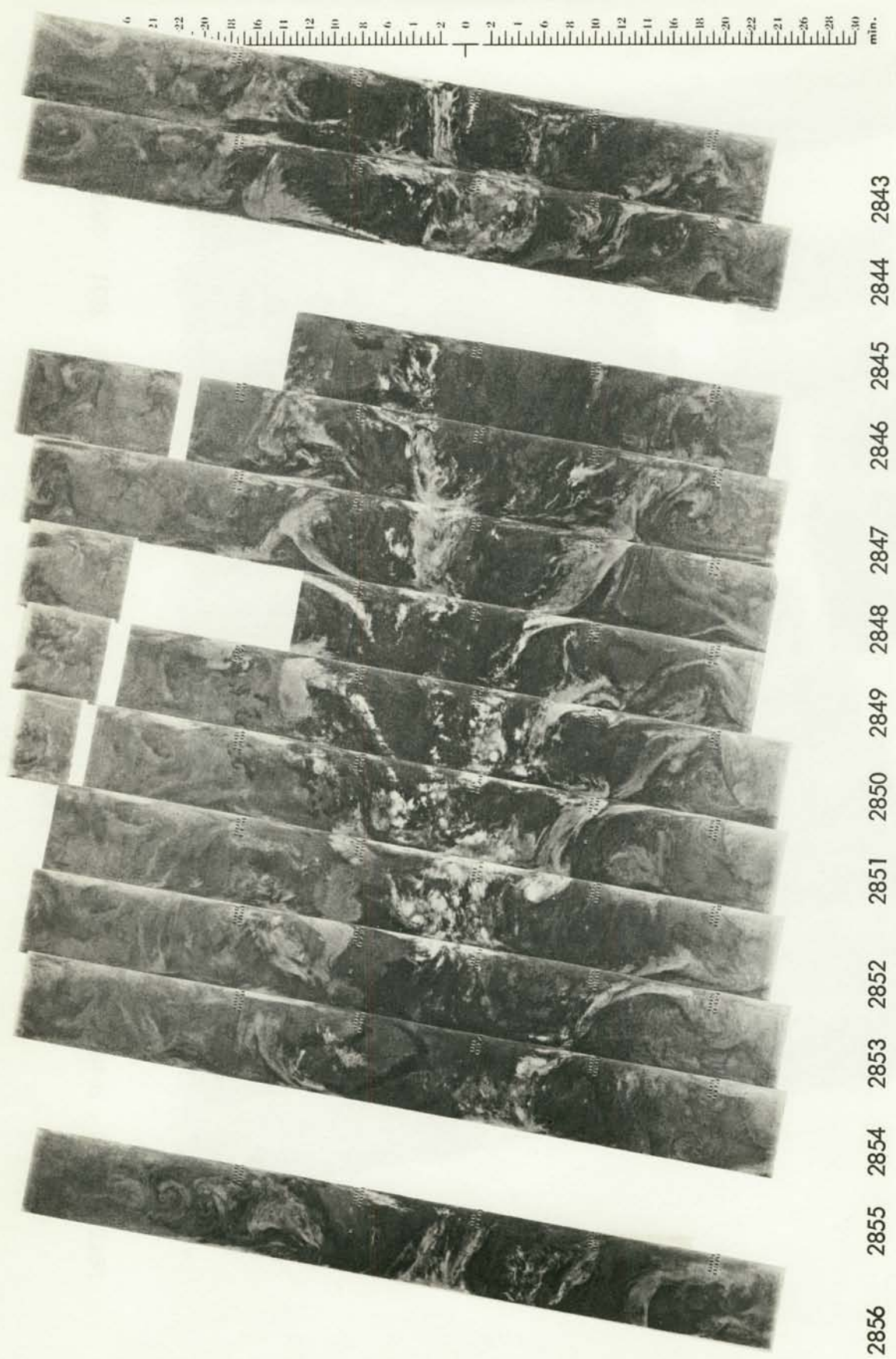
5 NOVEMBER 1970

6.7  $\mu\text{m}$

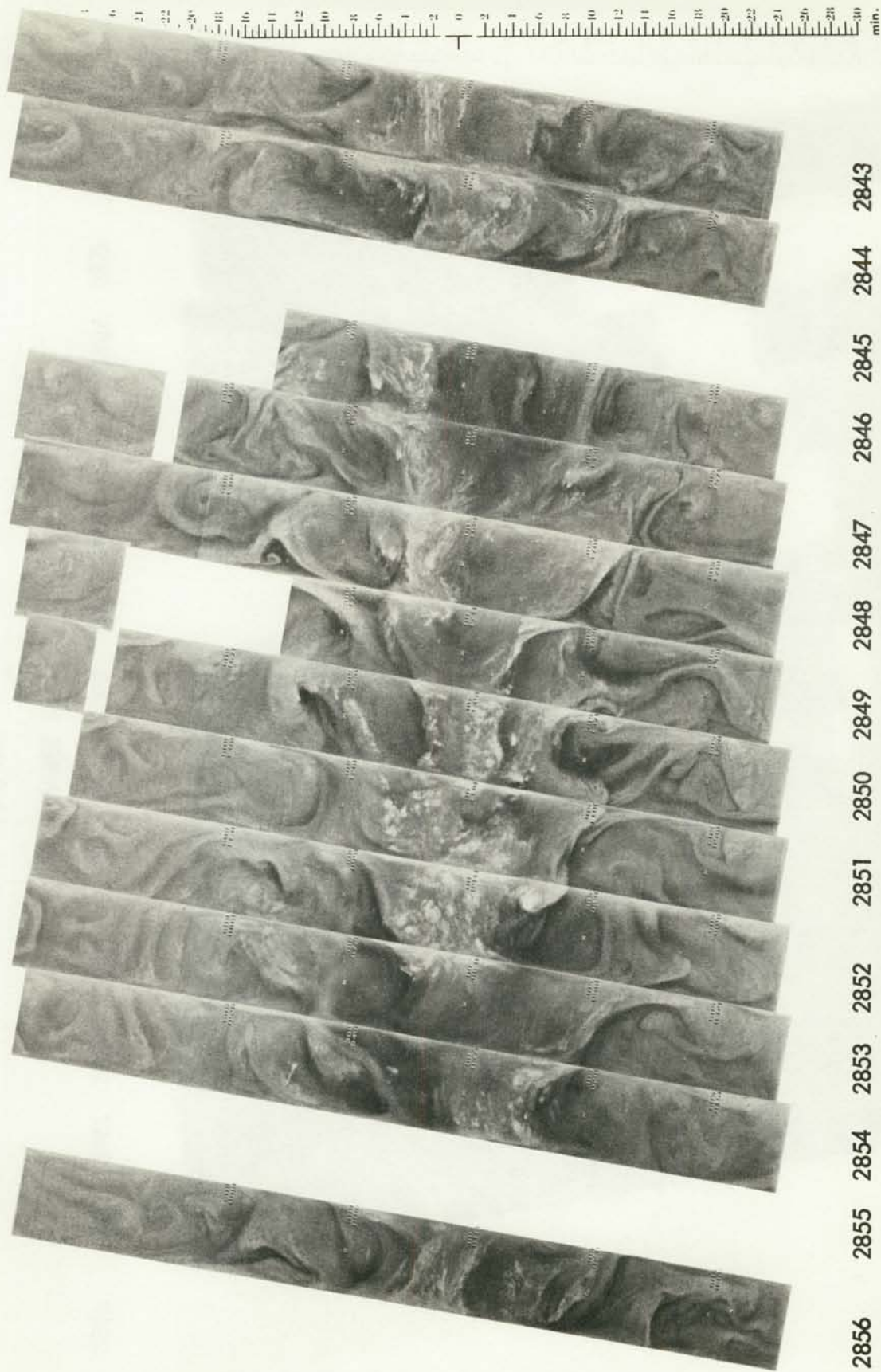
Reproduced from  
best available copy.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



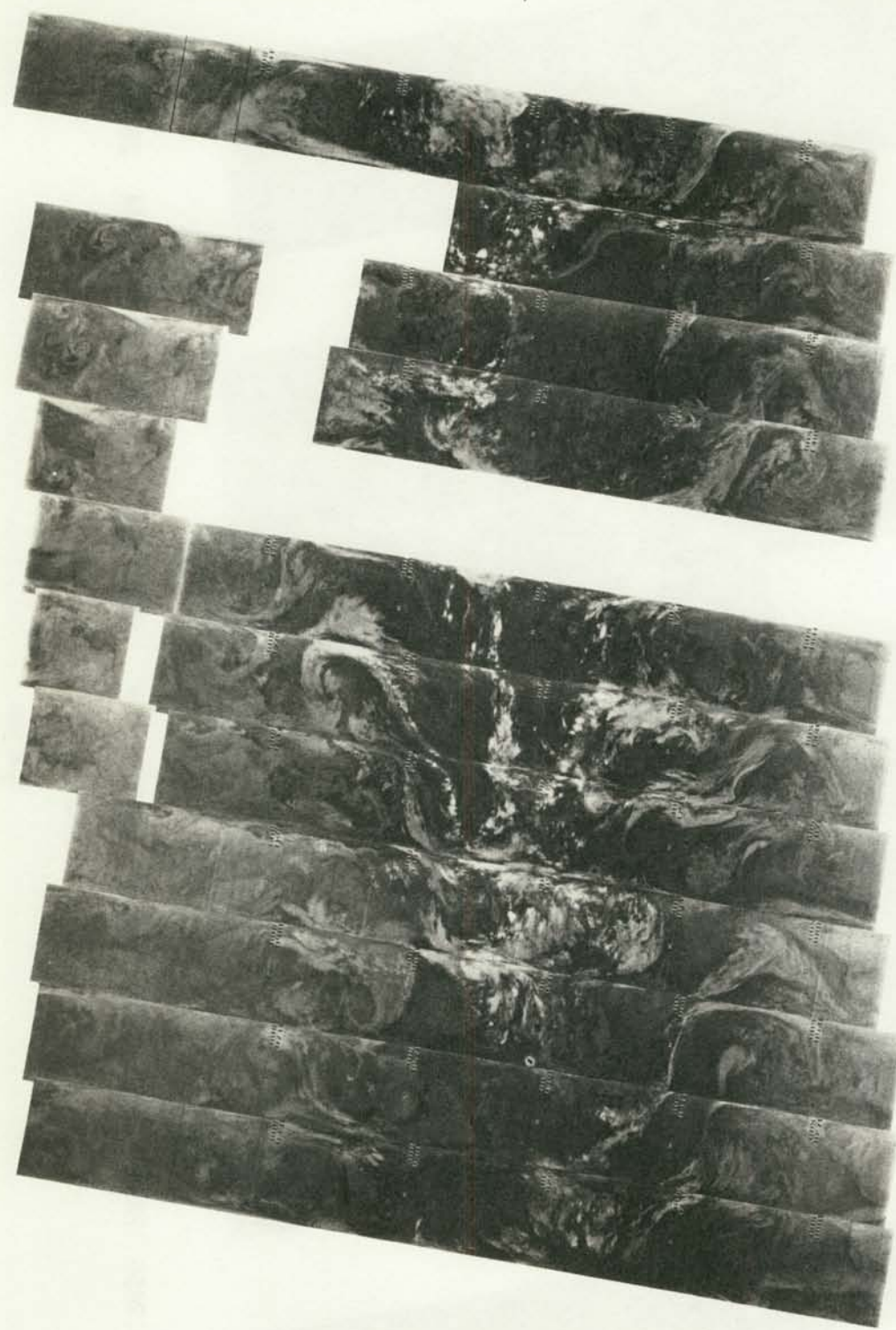




6 NOVEMBER 1970

6.7  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



2869 2868 2867 2866 2865 2864 2863 2862 2861 2860 2859 2858 2857

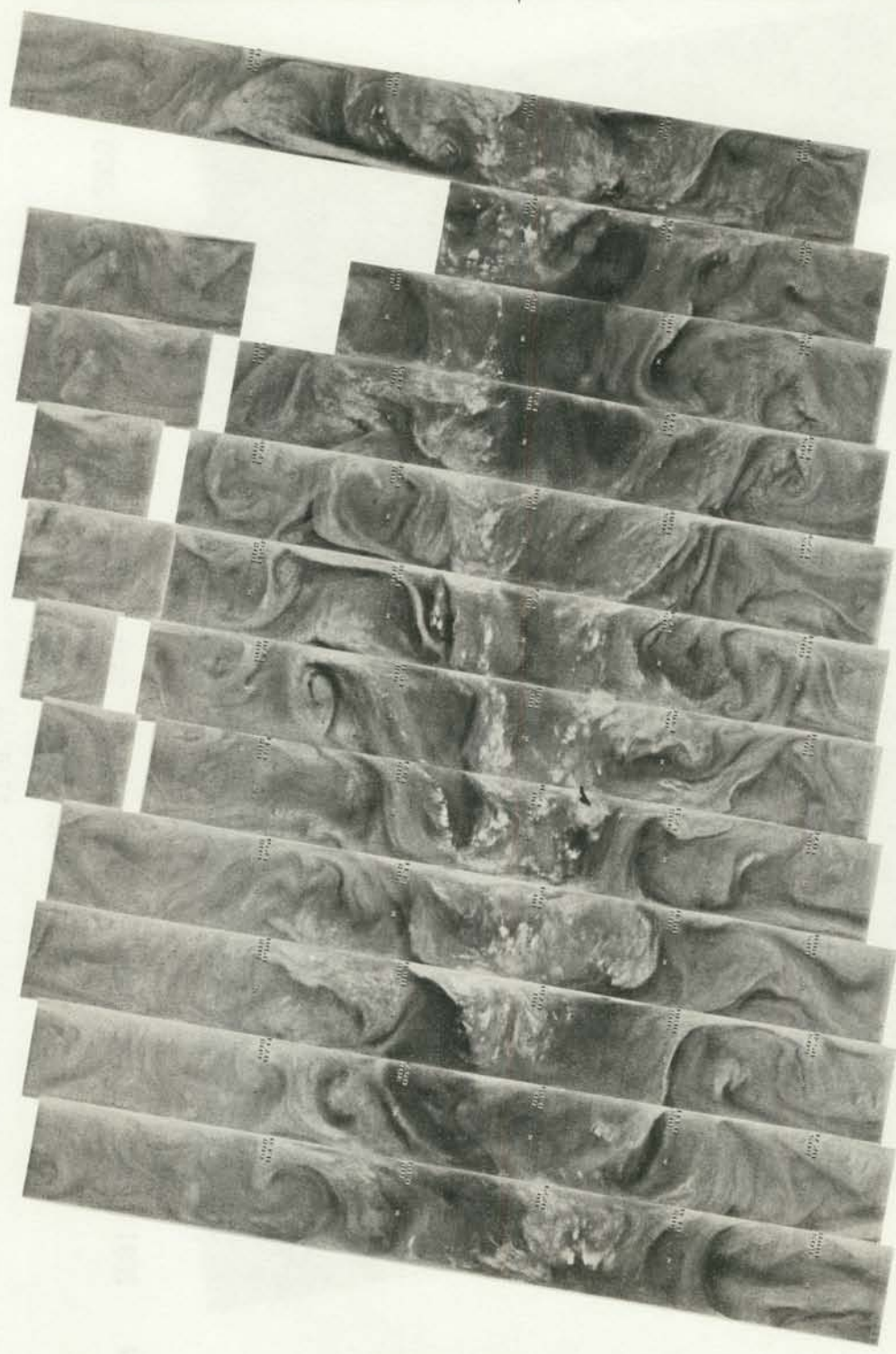
7 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

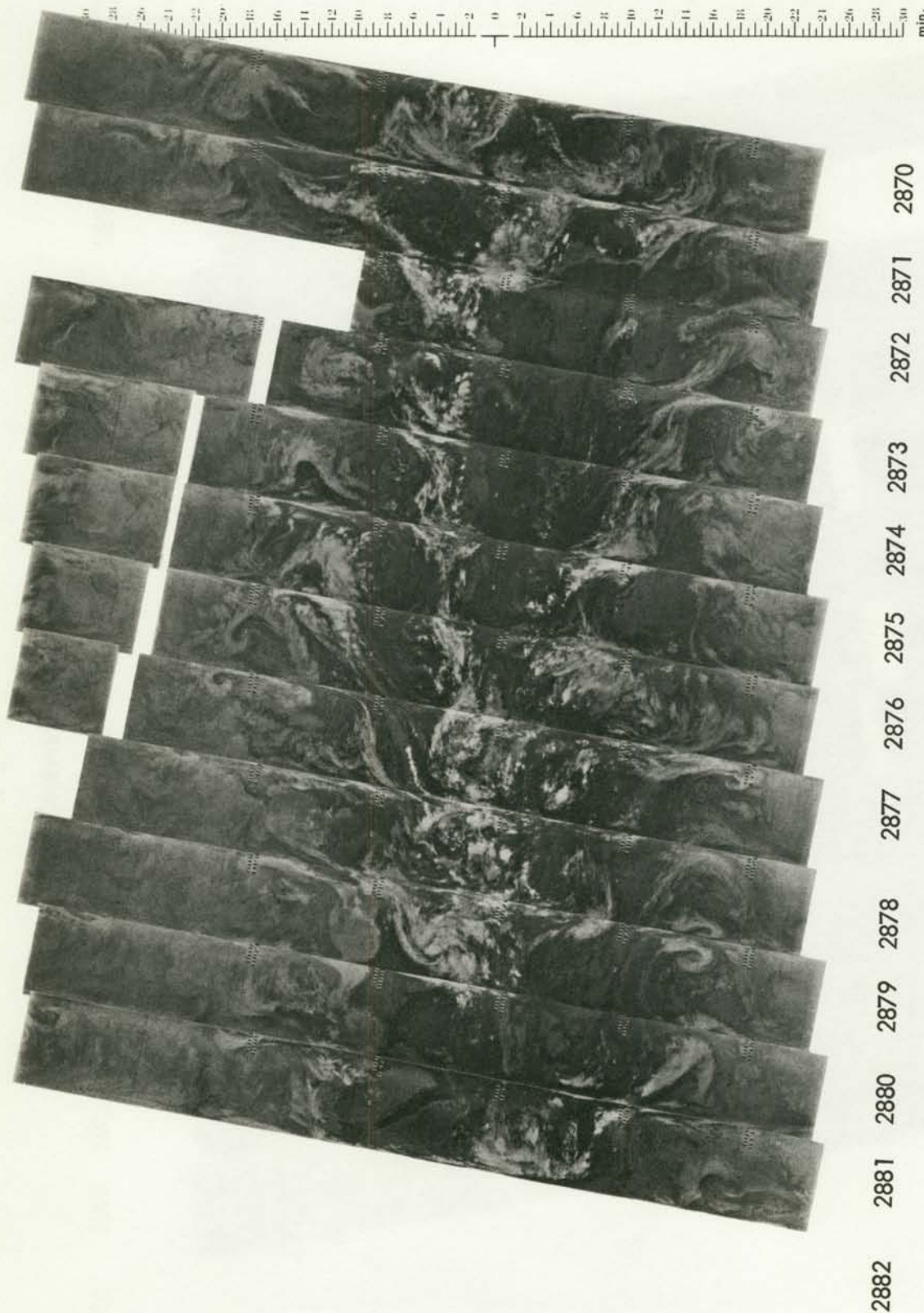


2869 2868 2867 2866 2865 2864 2863 2862 2861 2860 2859 2858 2857

7 NOVEMBER 1970

6.7  $\mu$ m

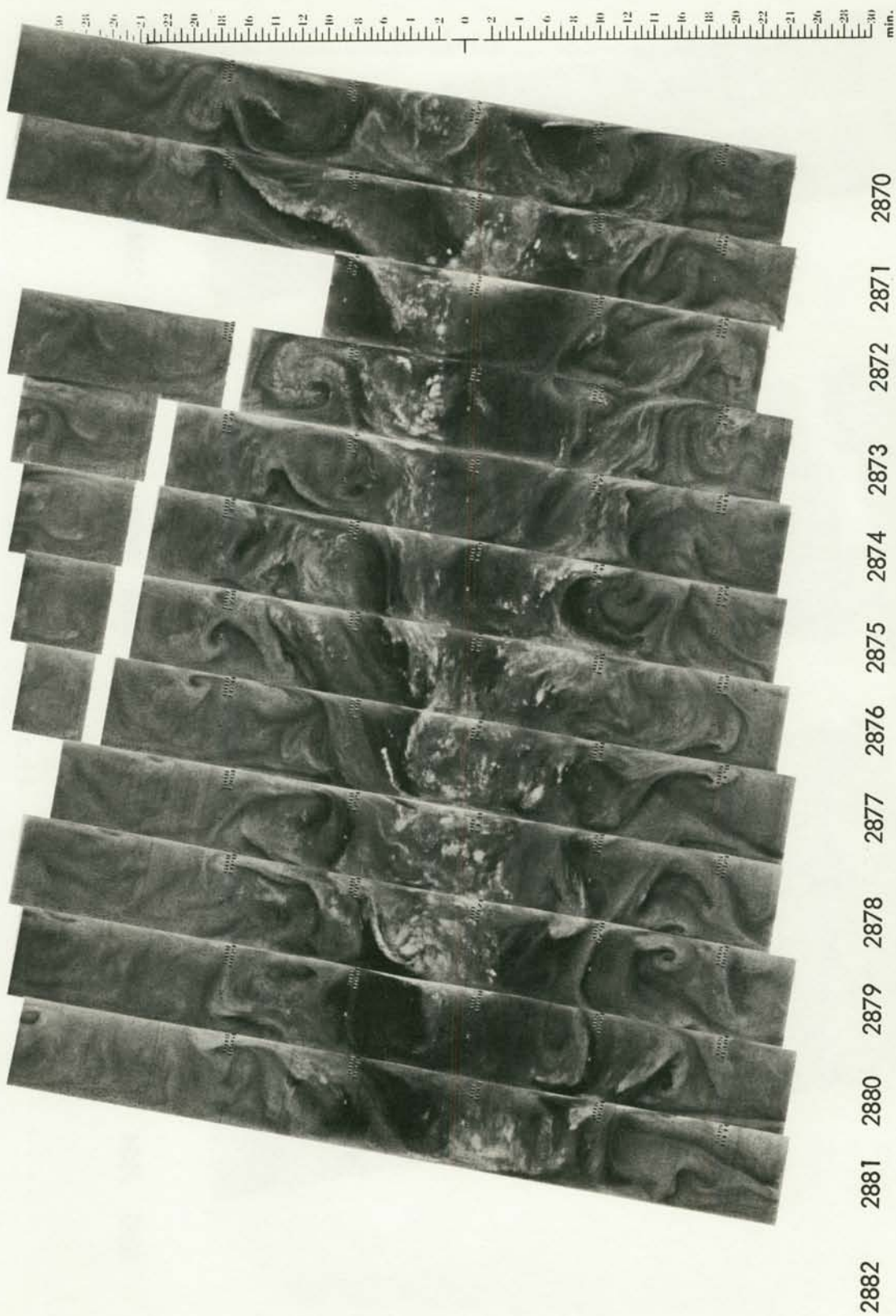
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

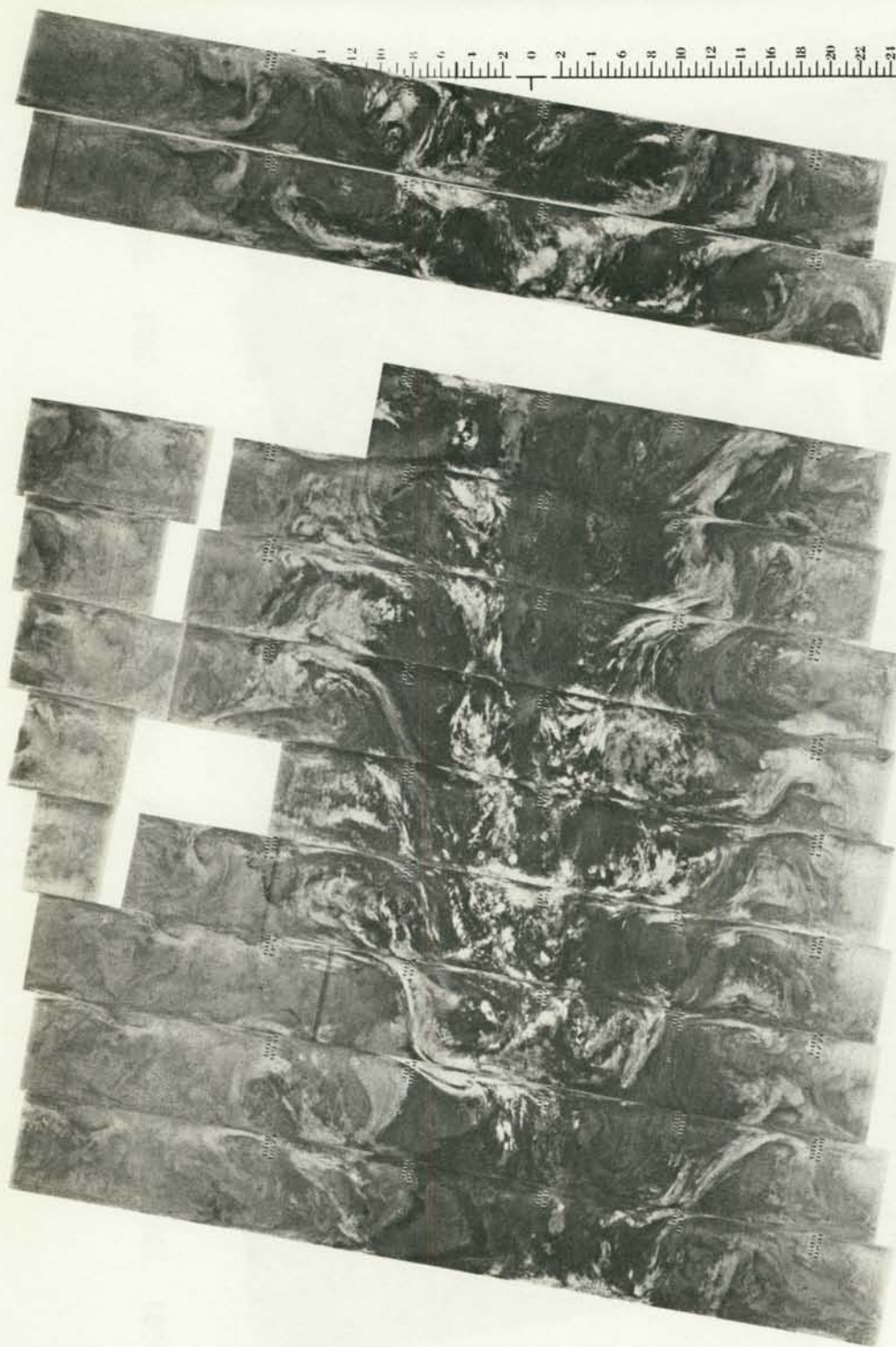




30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-19





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-20

2896 2895 2894 2893 2892 2891 2890 2889 2888 2887 2886 2885 2884 2883

9 NOVEMBER 1970

11.5  $\mu$ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

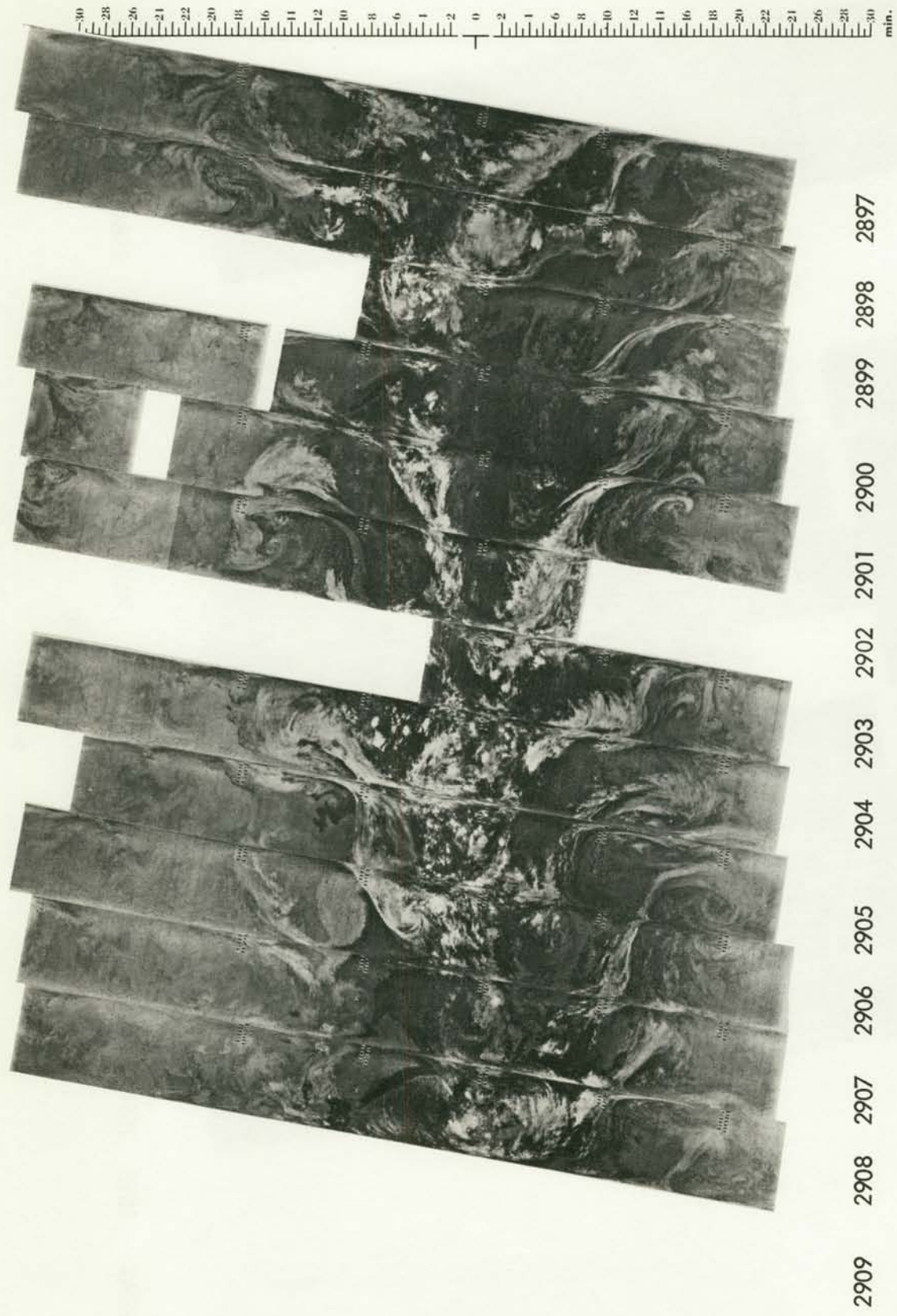
4-21



2896 2895 2894 2893 2892 2891 2890 2889 2888 2887 2886 2885 2884 2883

9 NOVEMBER 1970

6.7  $\mu$ m

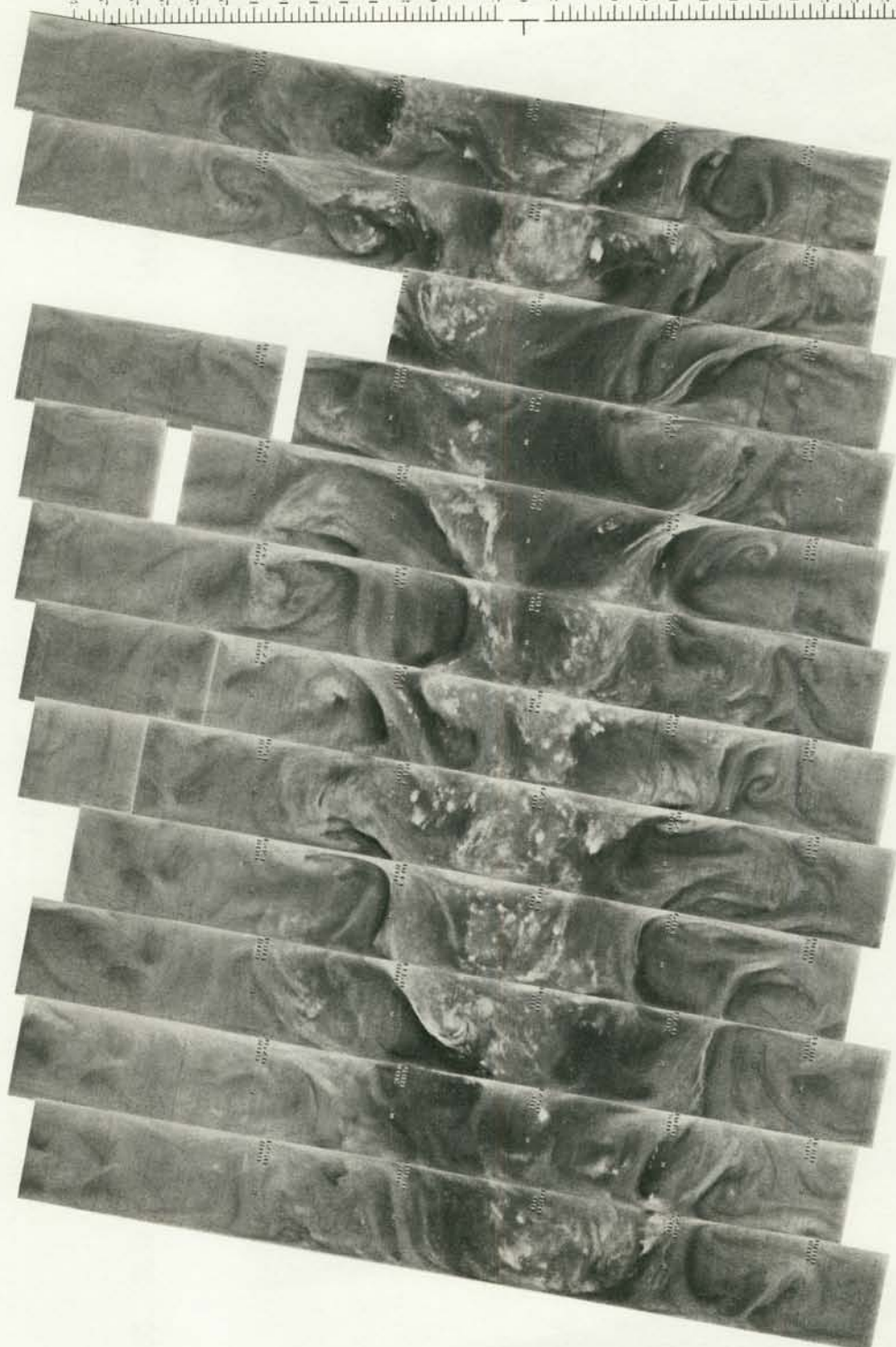


10 NOVEMBER 1970

11.5  $\mu$ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 mm.



2909 2908 2907 2906 2905 2904 2903 2902 2901 2900 2899 2898 2897

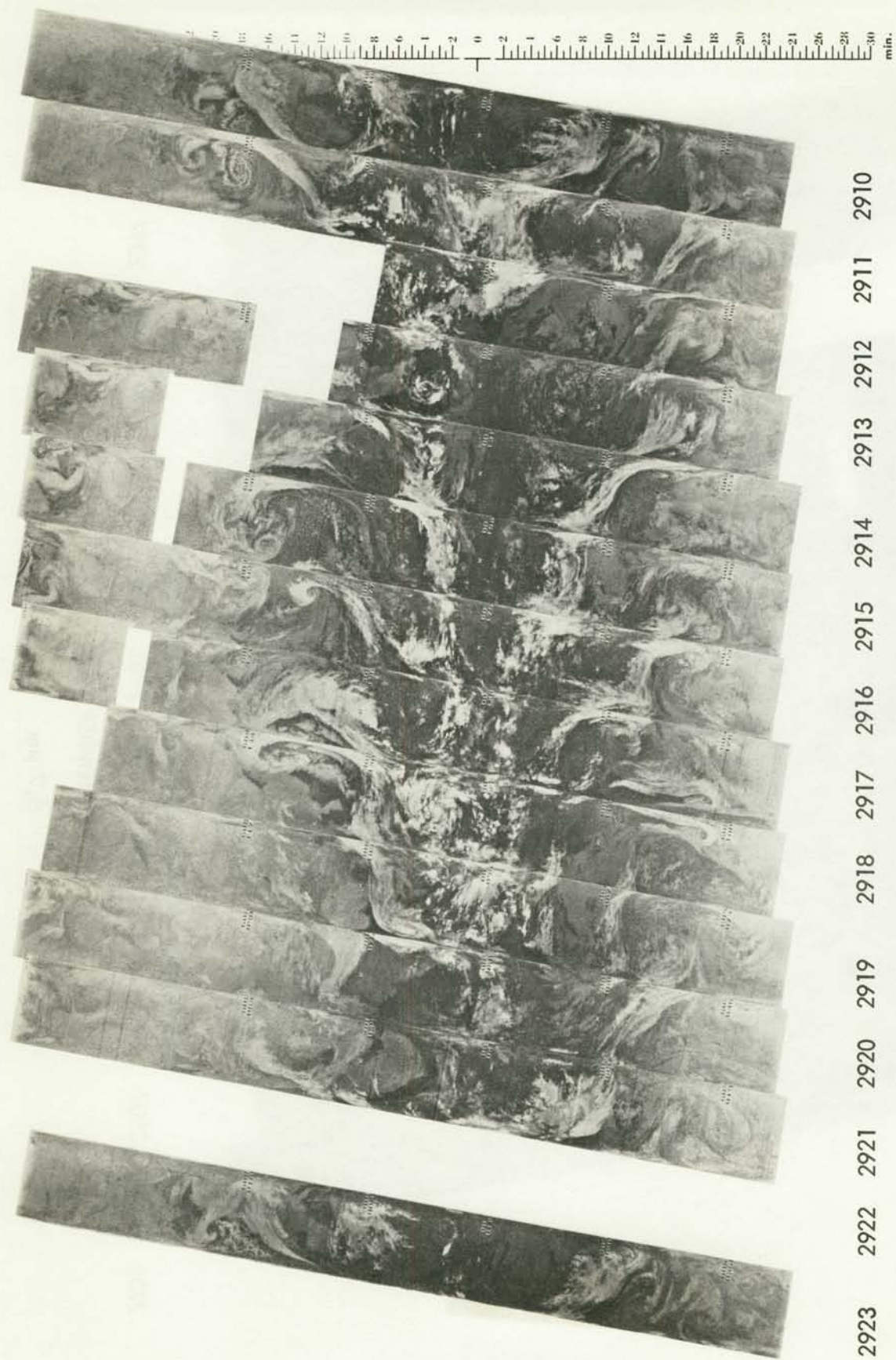
10 NOVEMBER 1970

6.7  $\mu$ m

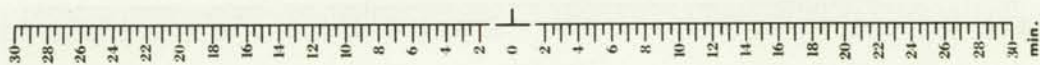
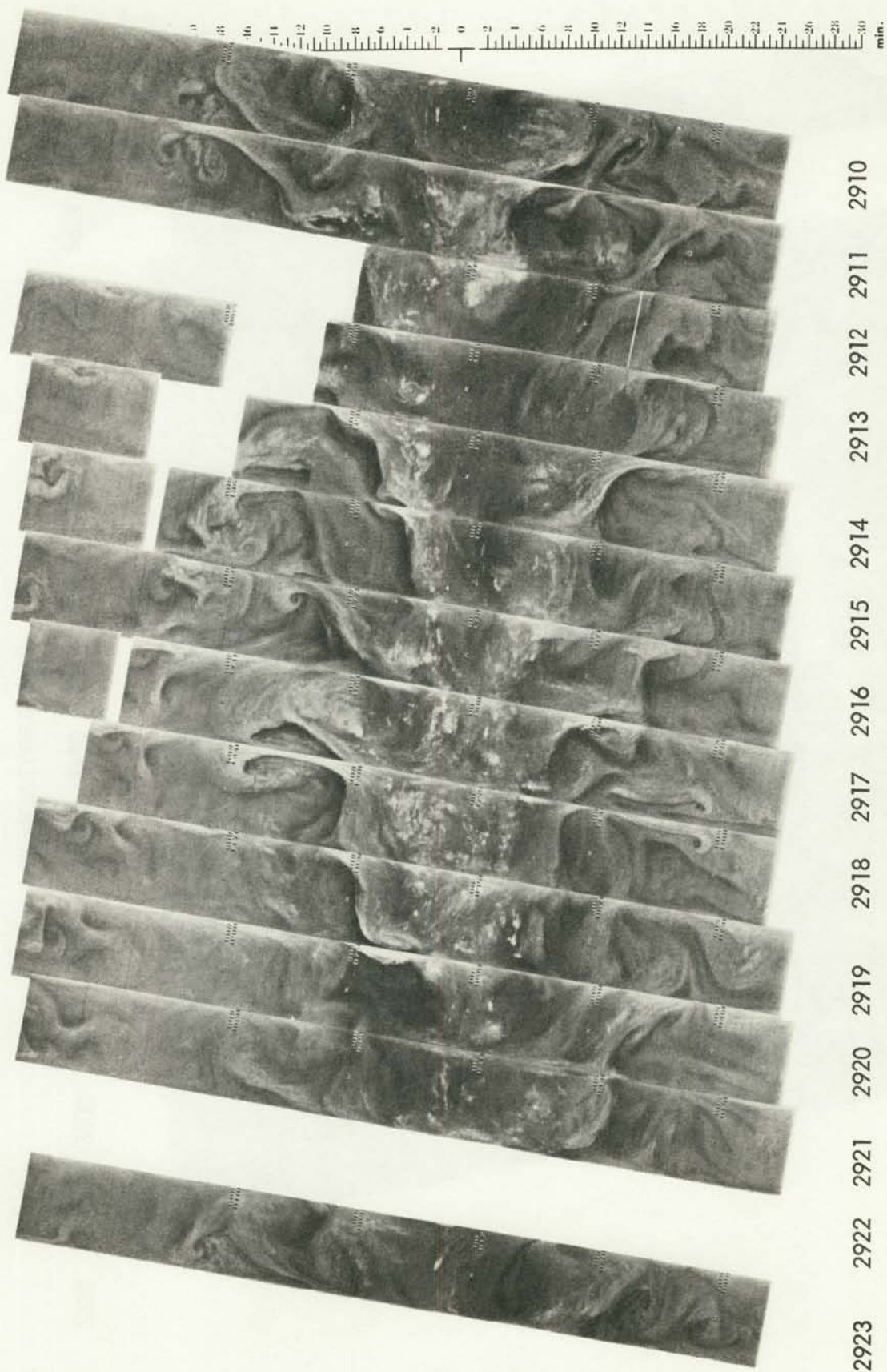
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best available copy.

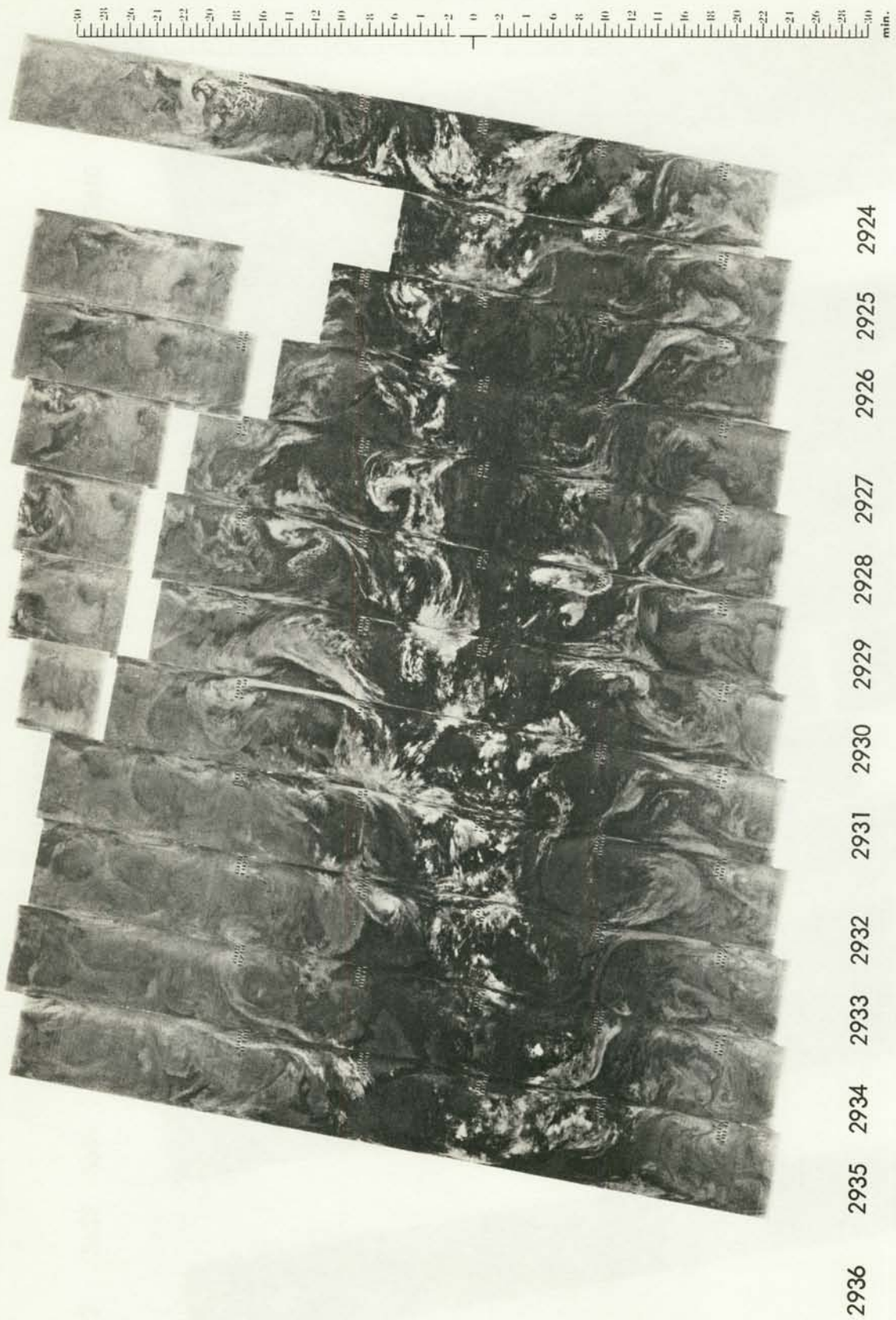


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 mm.



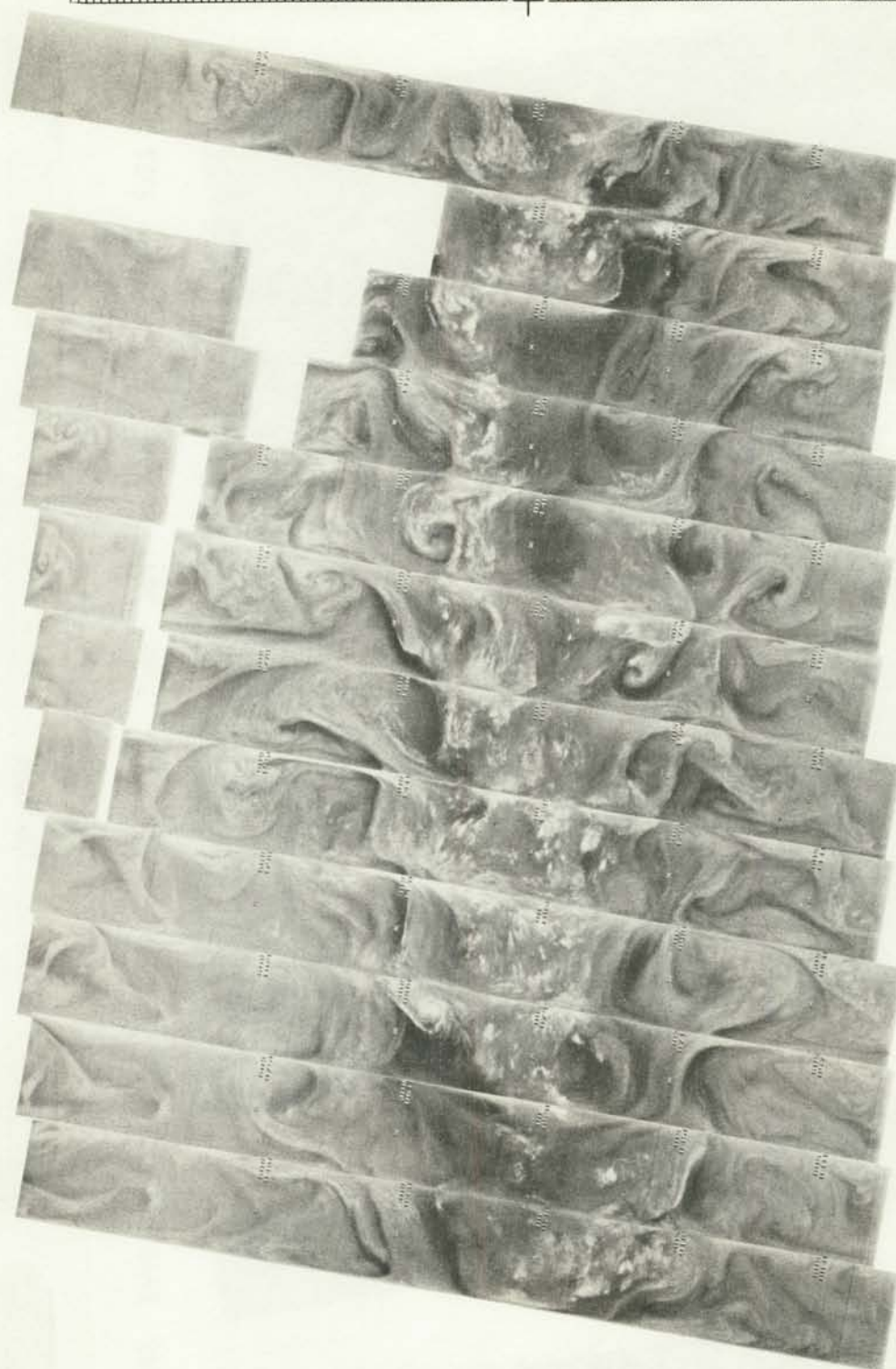








30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



2936 2935 2934 2933 2932 2931 2930 2929 2928 2927 2926 2925 2924

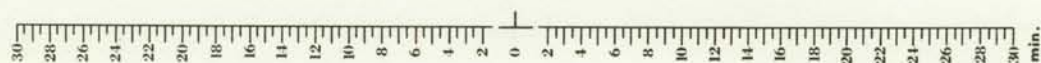
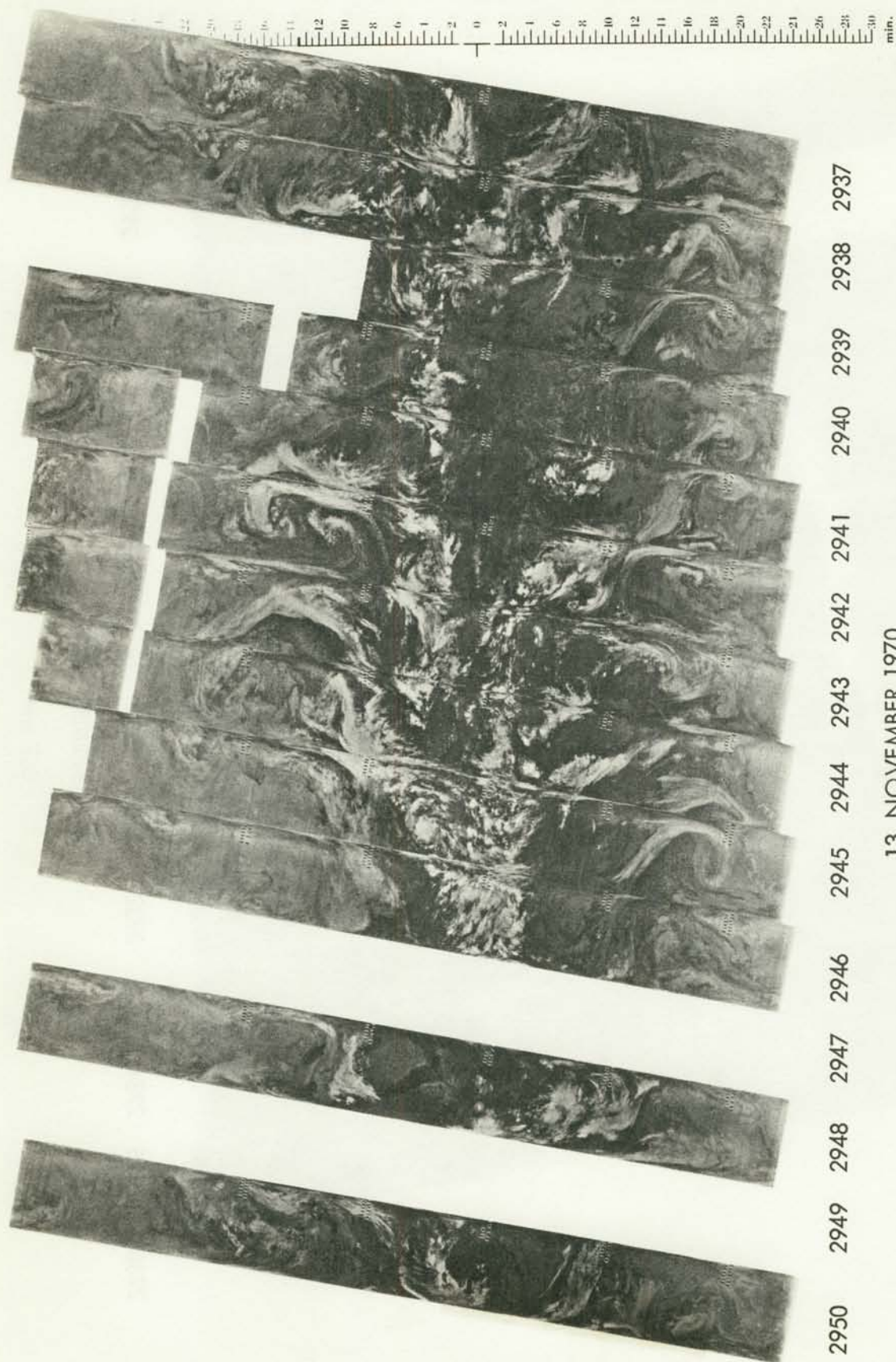
12 NOVEMBER 1970

6.7  $\mu$ m

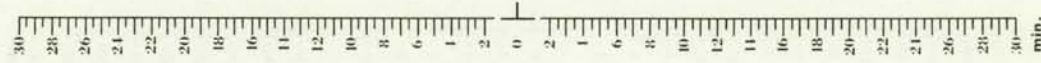
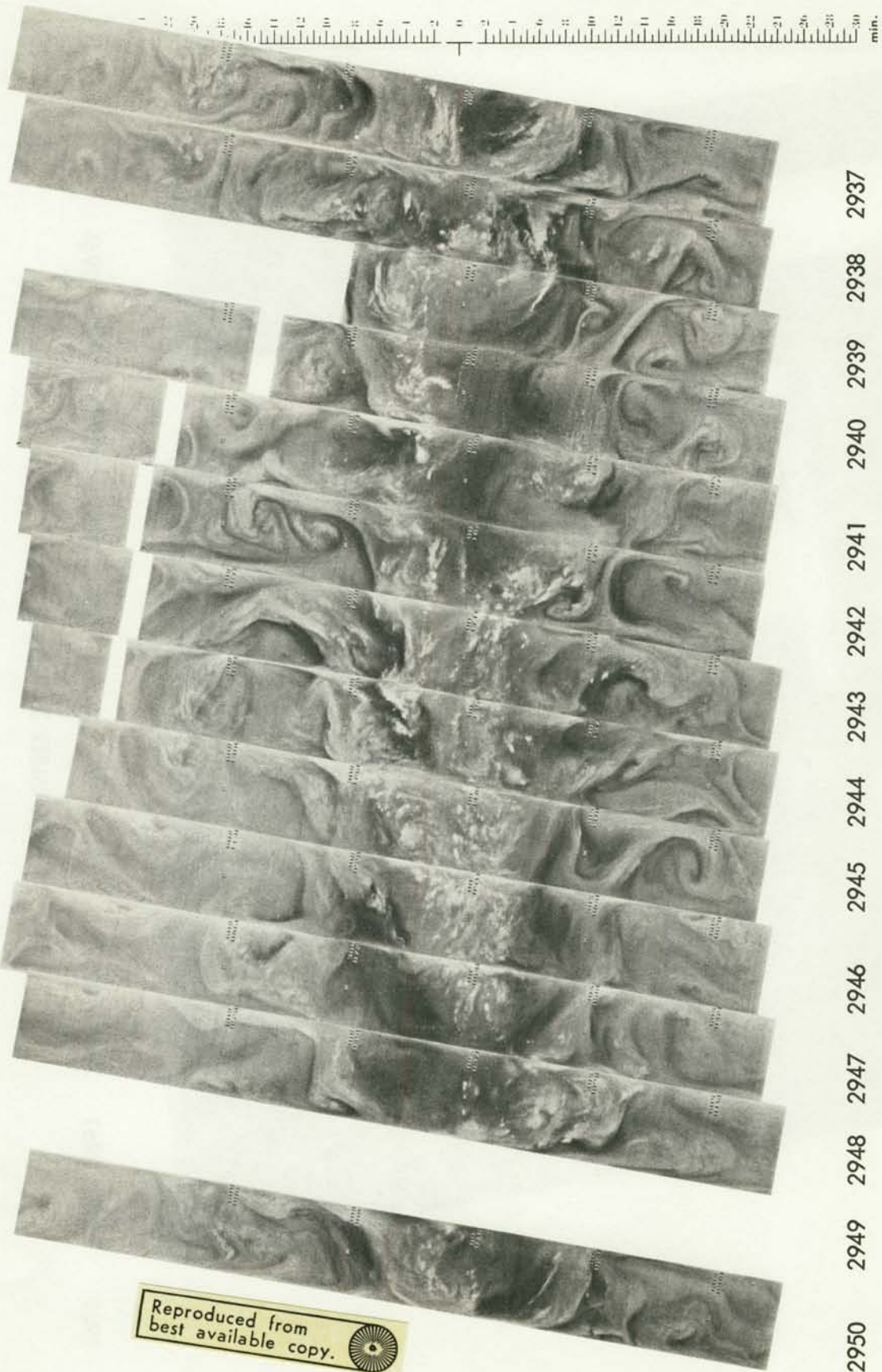
Reproduced from  
best available copy.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.







30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



2963 2962 2961 2960 2959 2958 2957 2956 2955 2954 2953 2952 2951

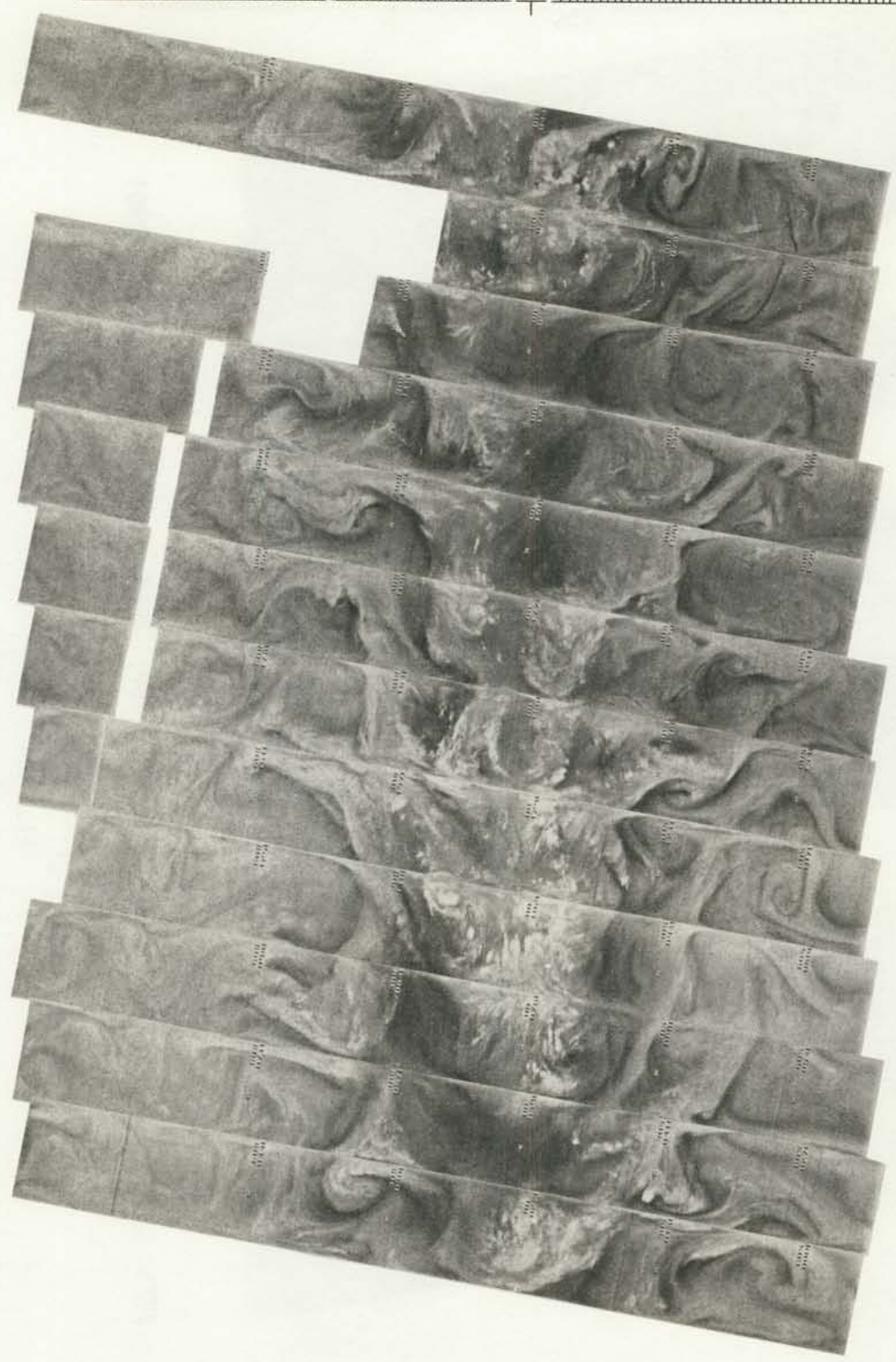
14 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



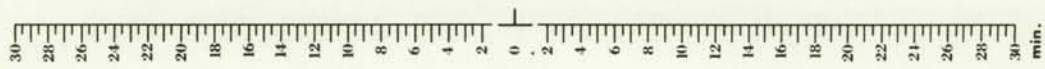
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

2963 2962 2961 2960 2959 2958 2957 2956 2955 2954 2953 2952 2951

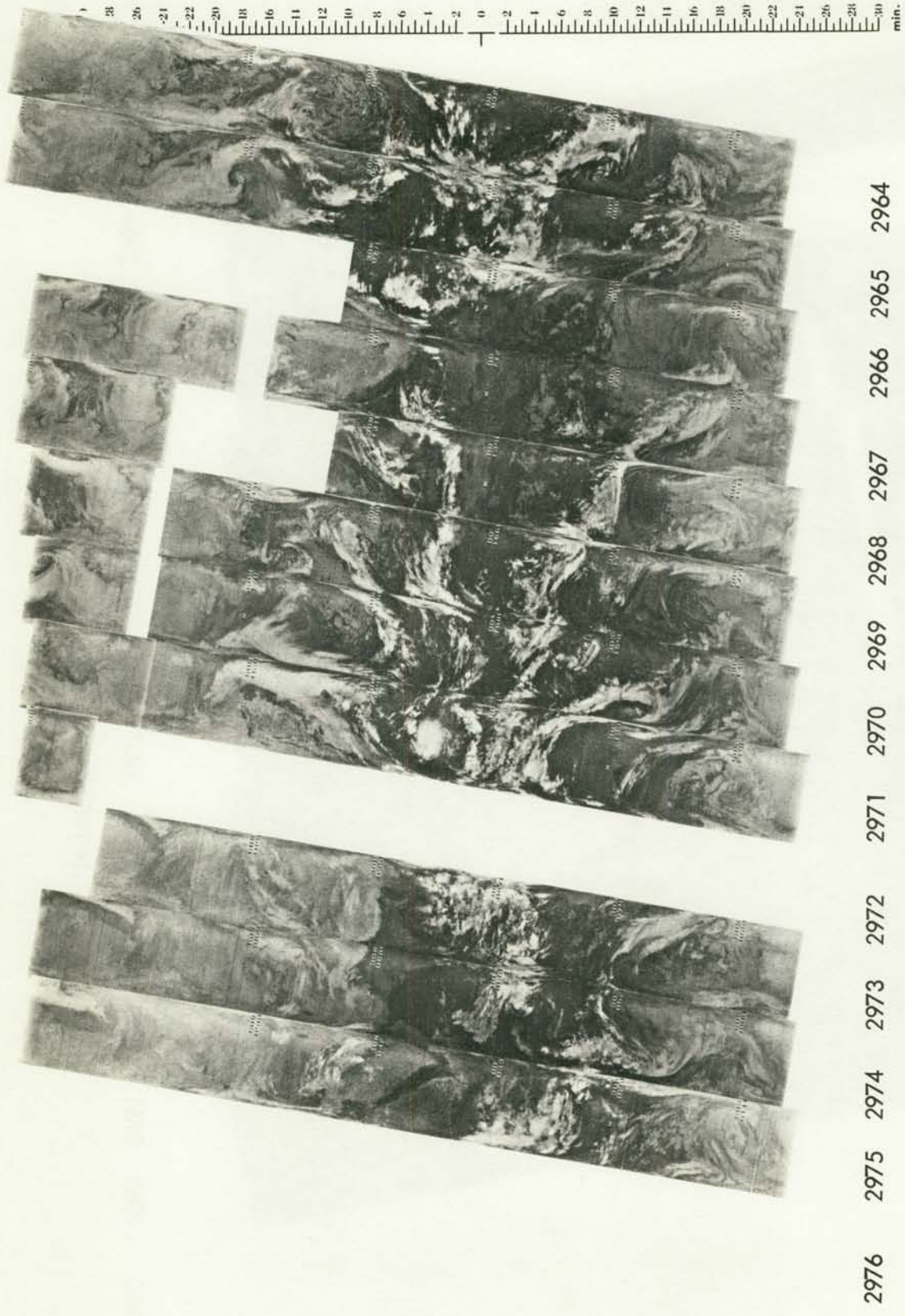
14 NOVEMBER 1970

6.7  $\mu$ m

4-11



4-32



15 NOVEMBER 1970

11.5  $\mu$ m

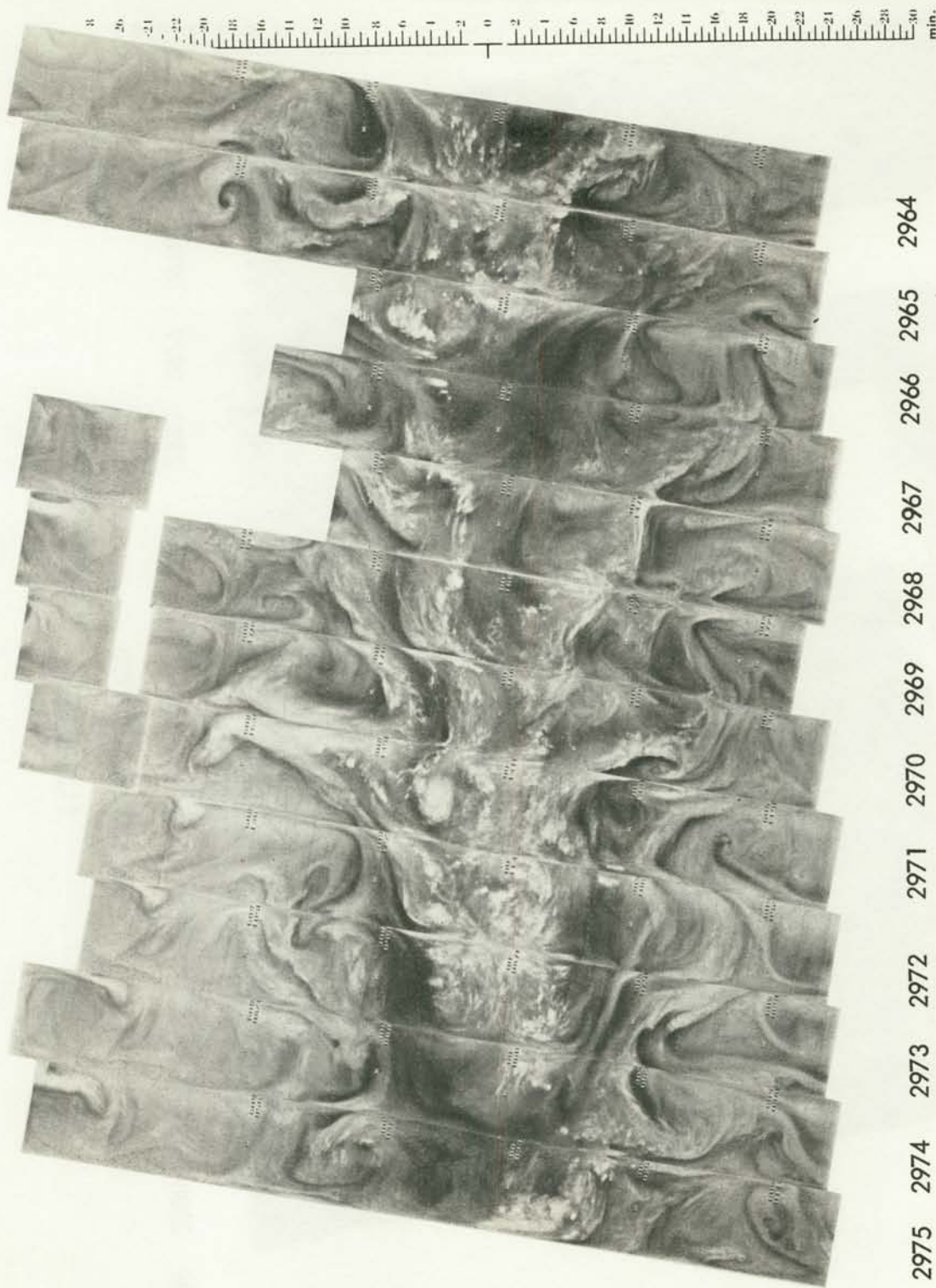


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

Reproduced from  
best available copy.



4-33



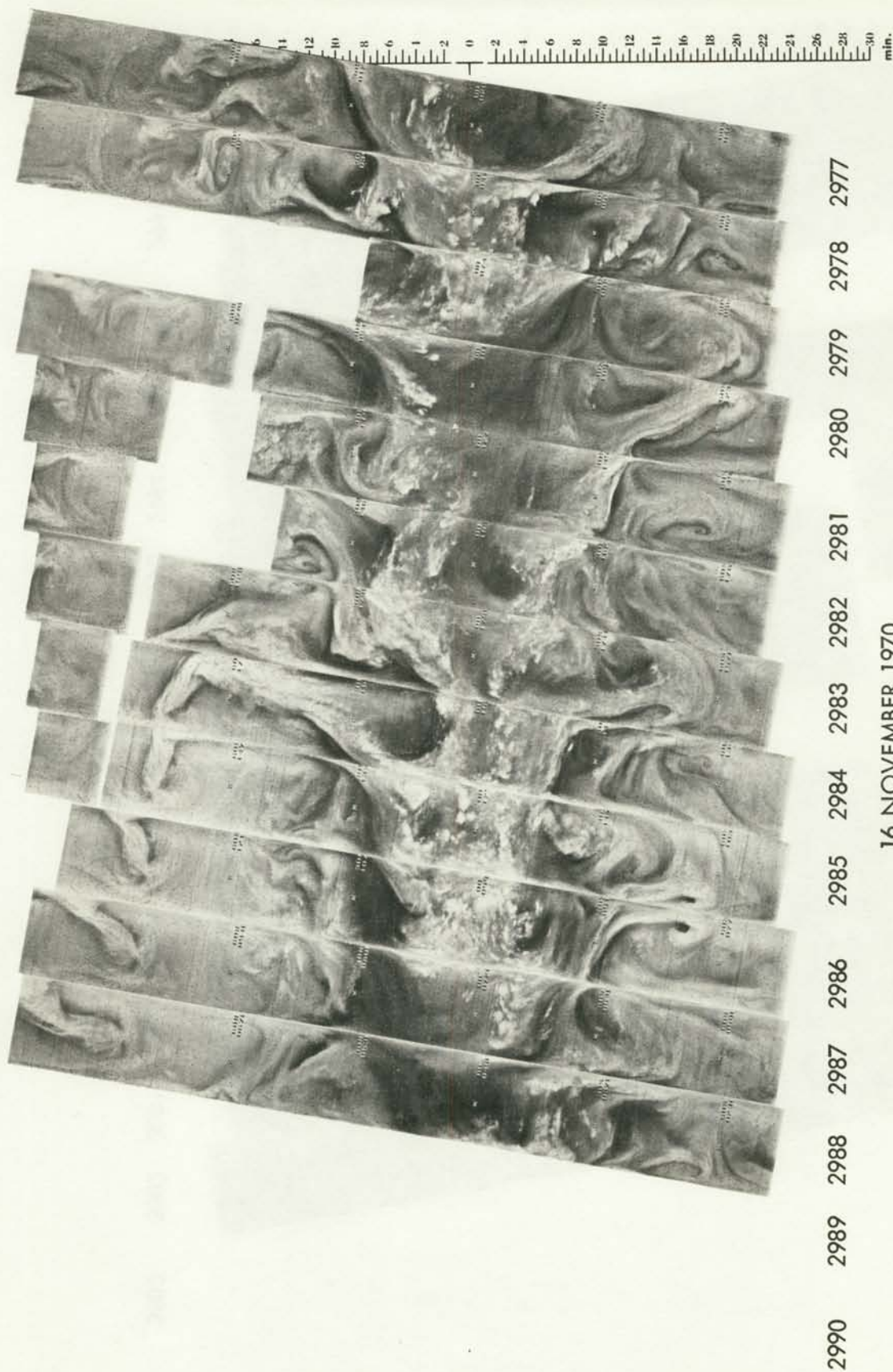
2976 2975 2974 2973 2972 2971 2970 2969 2968 2967 2966 2965 2964

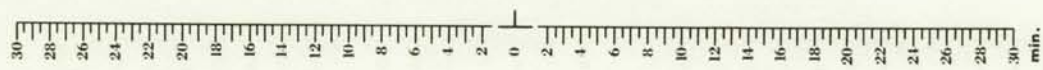
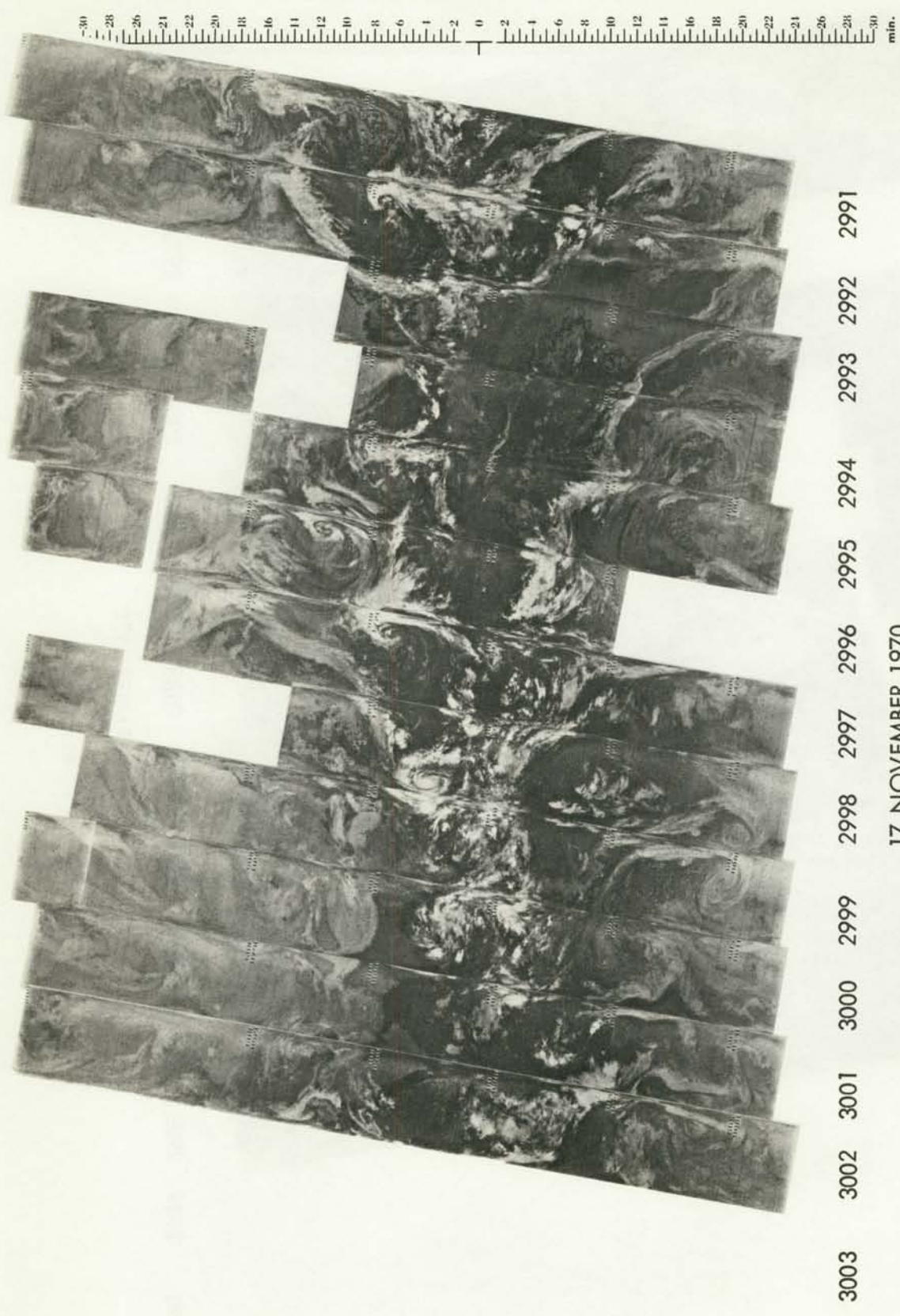
15 NOVEMBER 1970

6.7  $\mu$ m

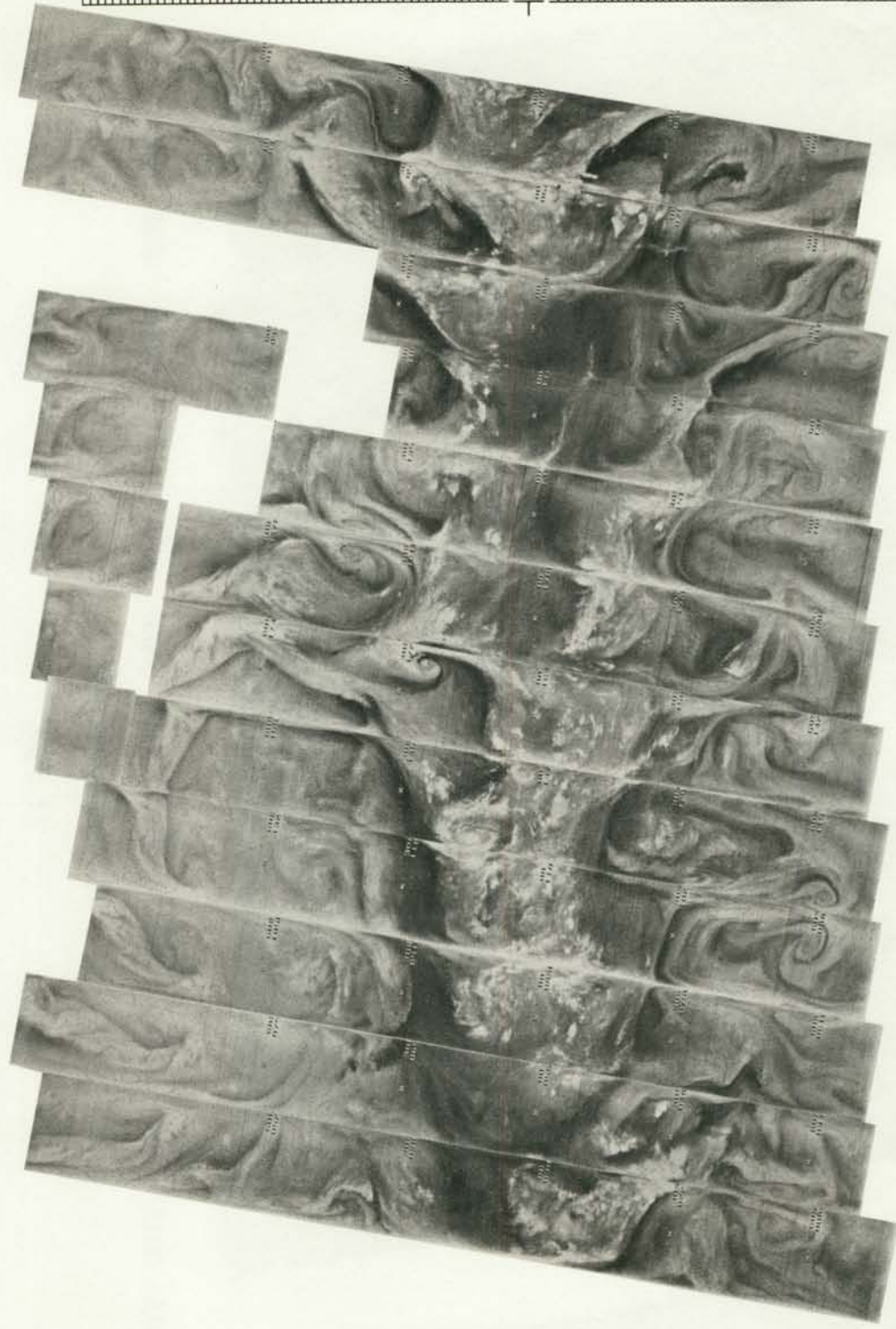
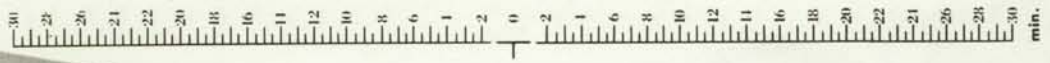








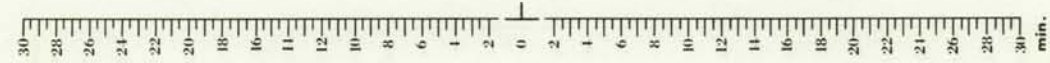




3003 3002 3001 3000 2999 2998 2997 2996 2995 2994 2993 2992 2991

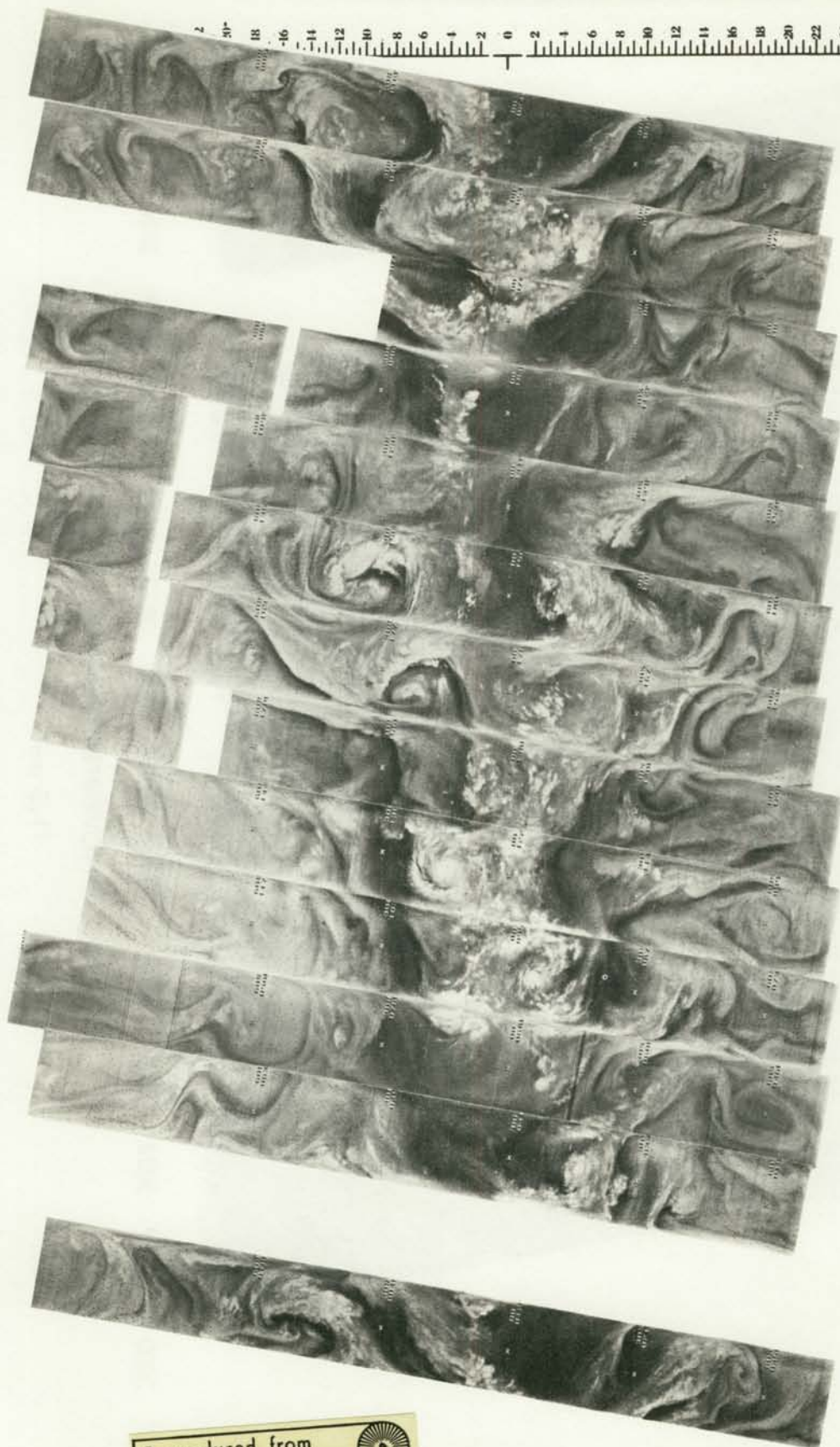
17 NOVEMBER 1970

6.7  $\mu\text{m}$







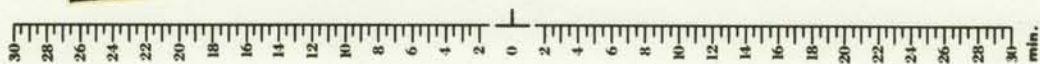


3017 3016 3015 3014 3013 3012 3011 3010 3009 3008 3007 3006 3005 3004

18 NOVEMBER 1970

6.7  $\mu$ m

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30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3018 3019 3020 3021 3022 3023 3024 3025 3026 3027 3028 3029 3030

19 NOVEMBER 1970

11.5  $\mu$ m

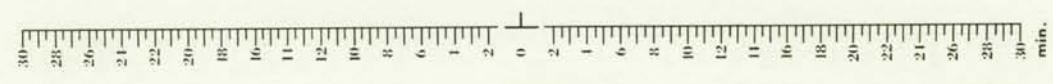
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

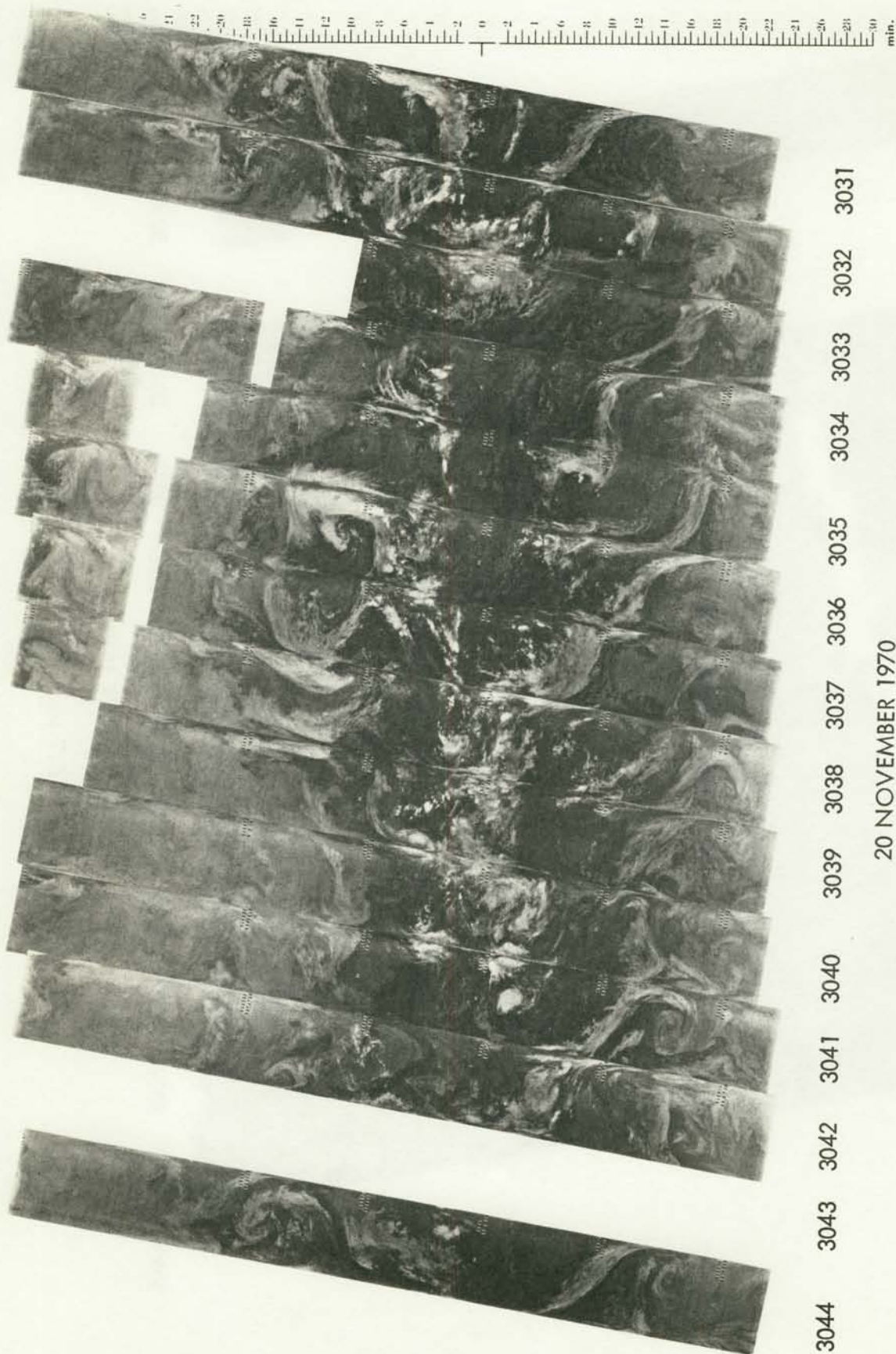




19 NOVEMBER 1970

6.7  $\mu$ m





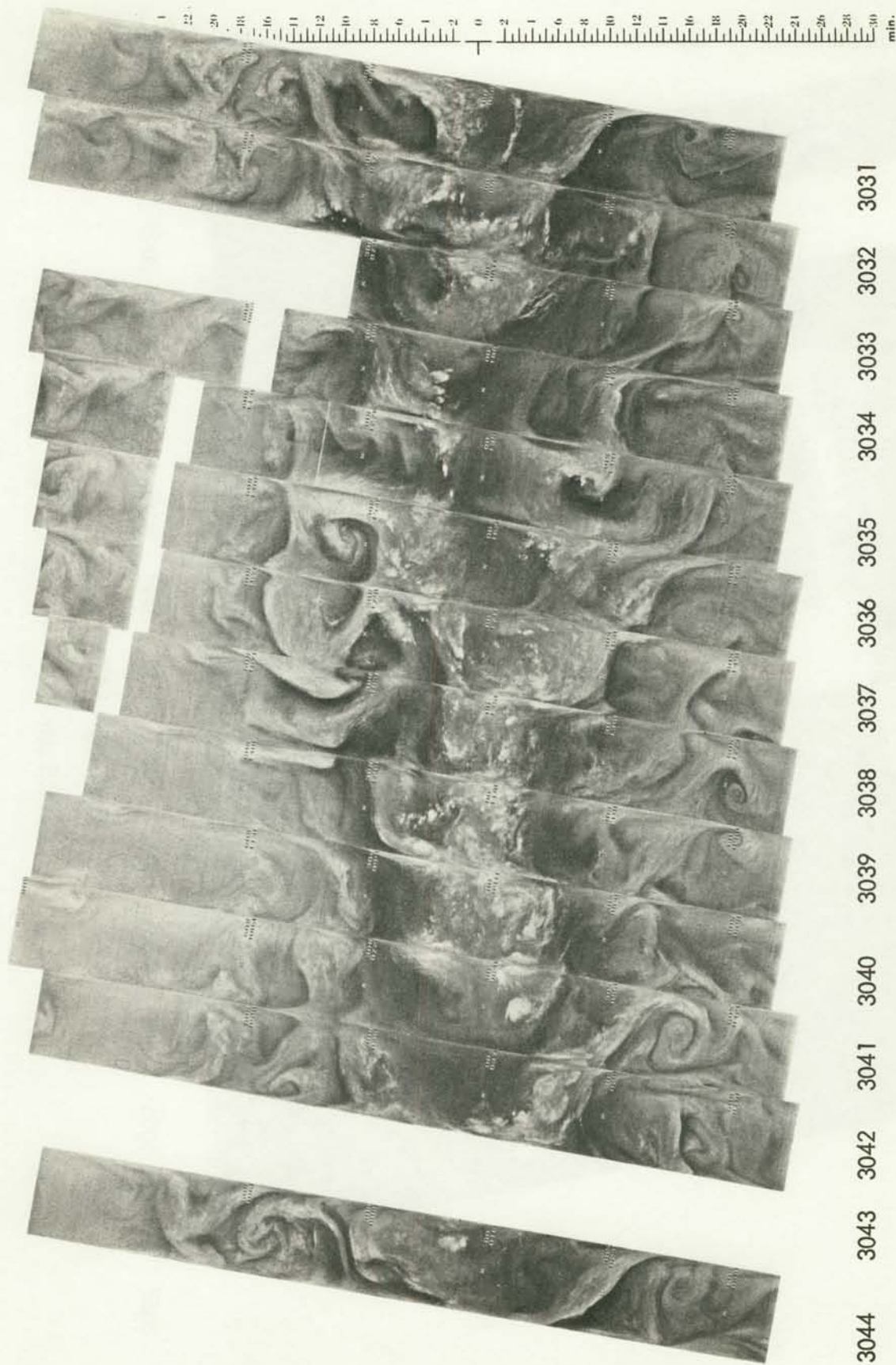
3044 3043 3042 3041 3040 3039 3038 3037 3036 3035 3034 3033 3032 3031

20 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 mm.



3057 3056 3055 3054 3053 3052 3051 3050 3049 3048 3047 3046 3045

21 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3057 3056 3055 3054 3053 3052 3051 3050 3049 3048 3047 3046 3045

21 NOVEMBER 1970

6.7  $\mu$ m

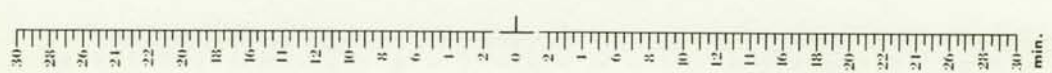
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3070 3069 3068 3067 3066 3065 3064 3063 3062 3061 3060 3059 3058

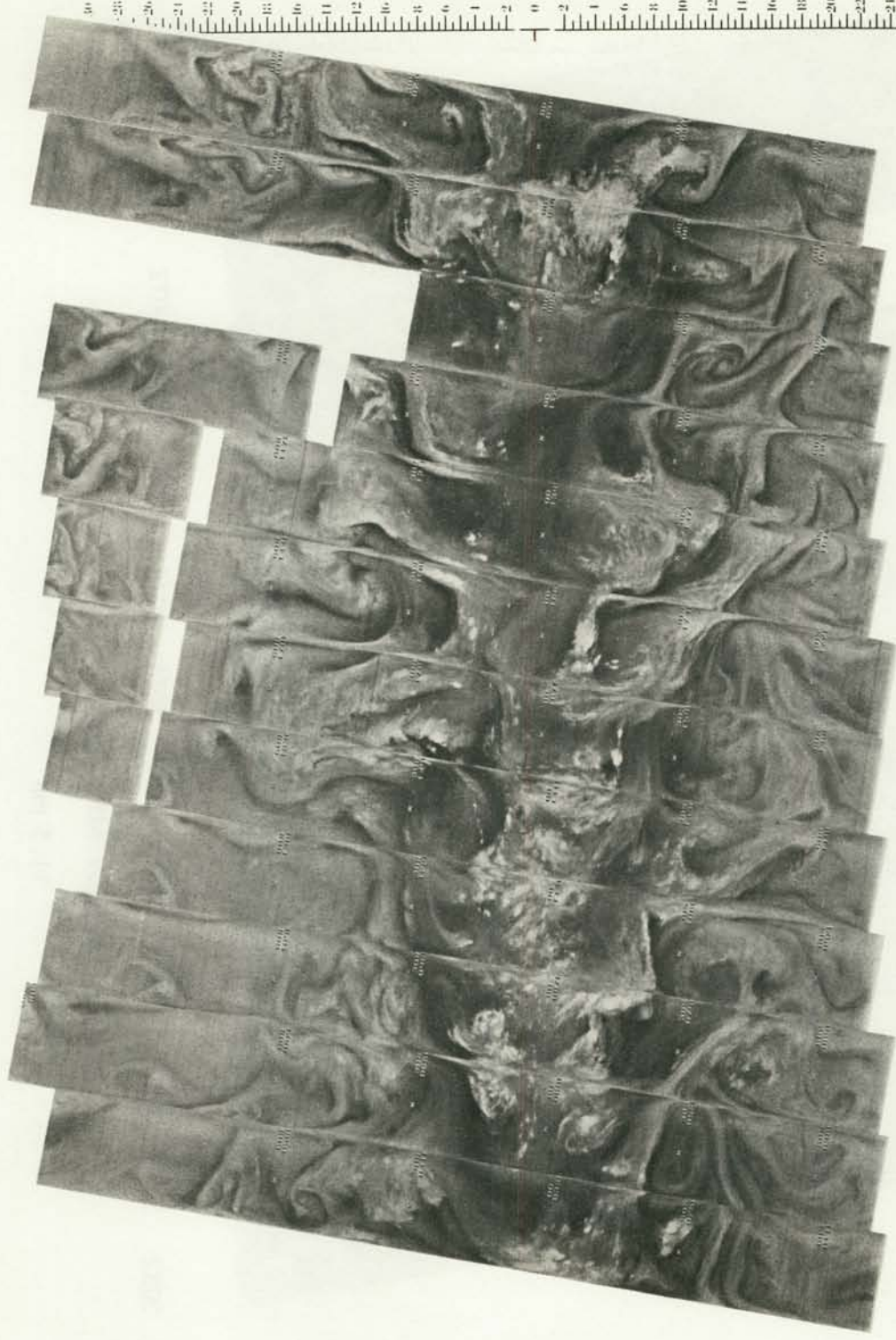
22 NOVEMBER 1970

11.5  $\mu$ m





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3070 3069 3068 3067 3066 3065 3064 3063 3062 3061 3060 3059 3058

22 NOVEMBER 1970

6.7  $\mu$ m

Reproduced from  
best available copy.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-48



3084 3083 3082 3081 3080 3079 3078 3077 3076 3075 3074 3073 3072 3071

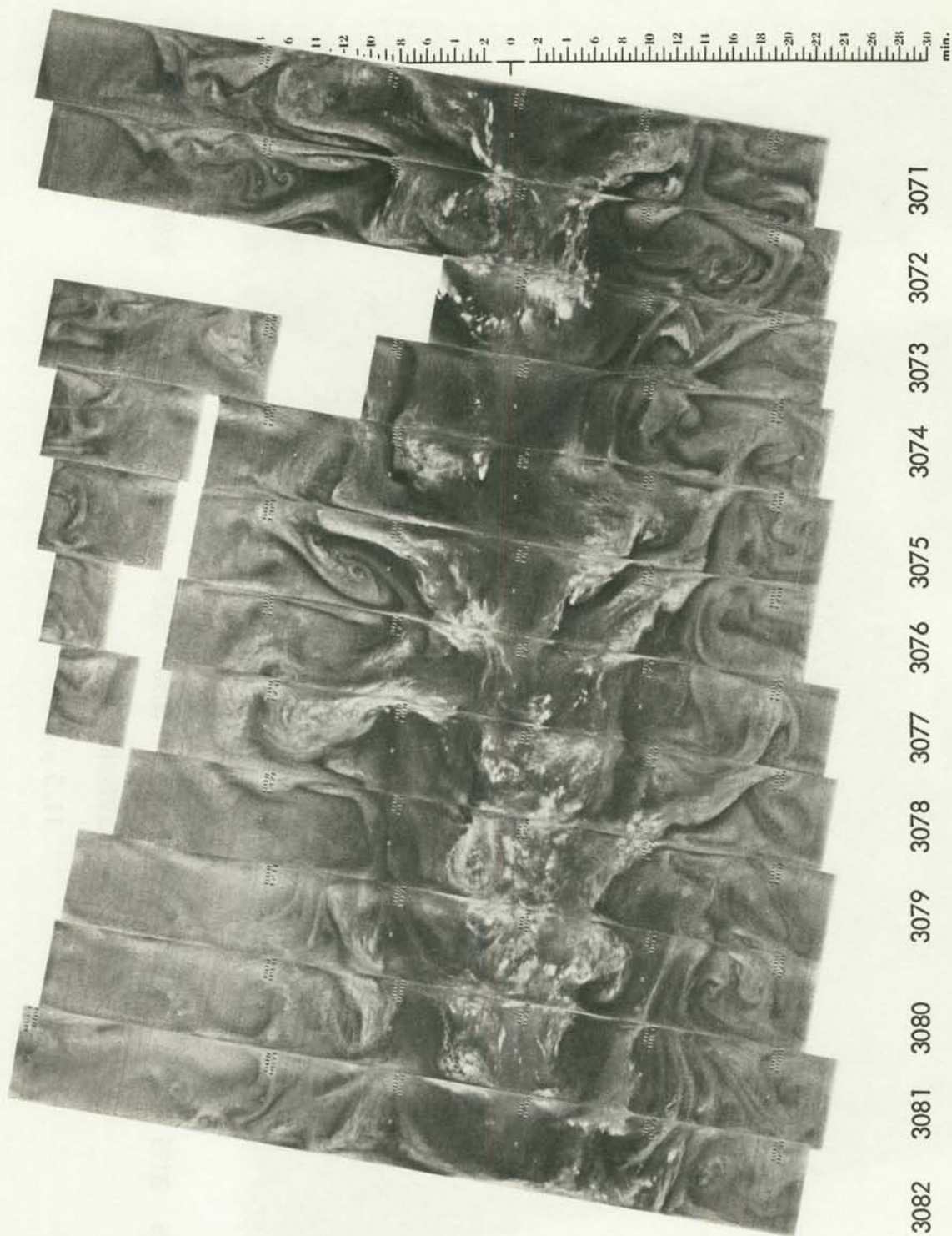
23 NOVEMBER 1970

11.5  $\mu$ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-49



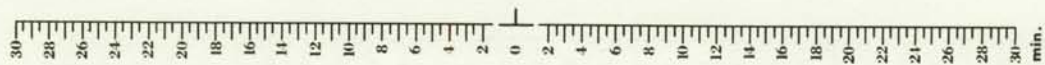
23 NOVEMBER 1970

6.7  $\mu$ m



24 NOVEMBER 1970

11.5  $\mu$ m





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

Reproduced from  
best available copy.



3097 3096 3095 3094 3093 3092 3091 3090 3089 3088 3087 3086 3085

24 NOVEMBER 1970

6.7  $\mu$ m

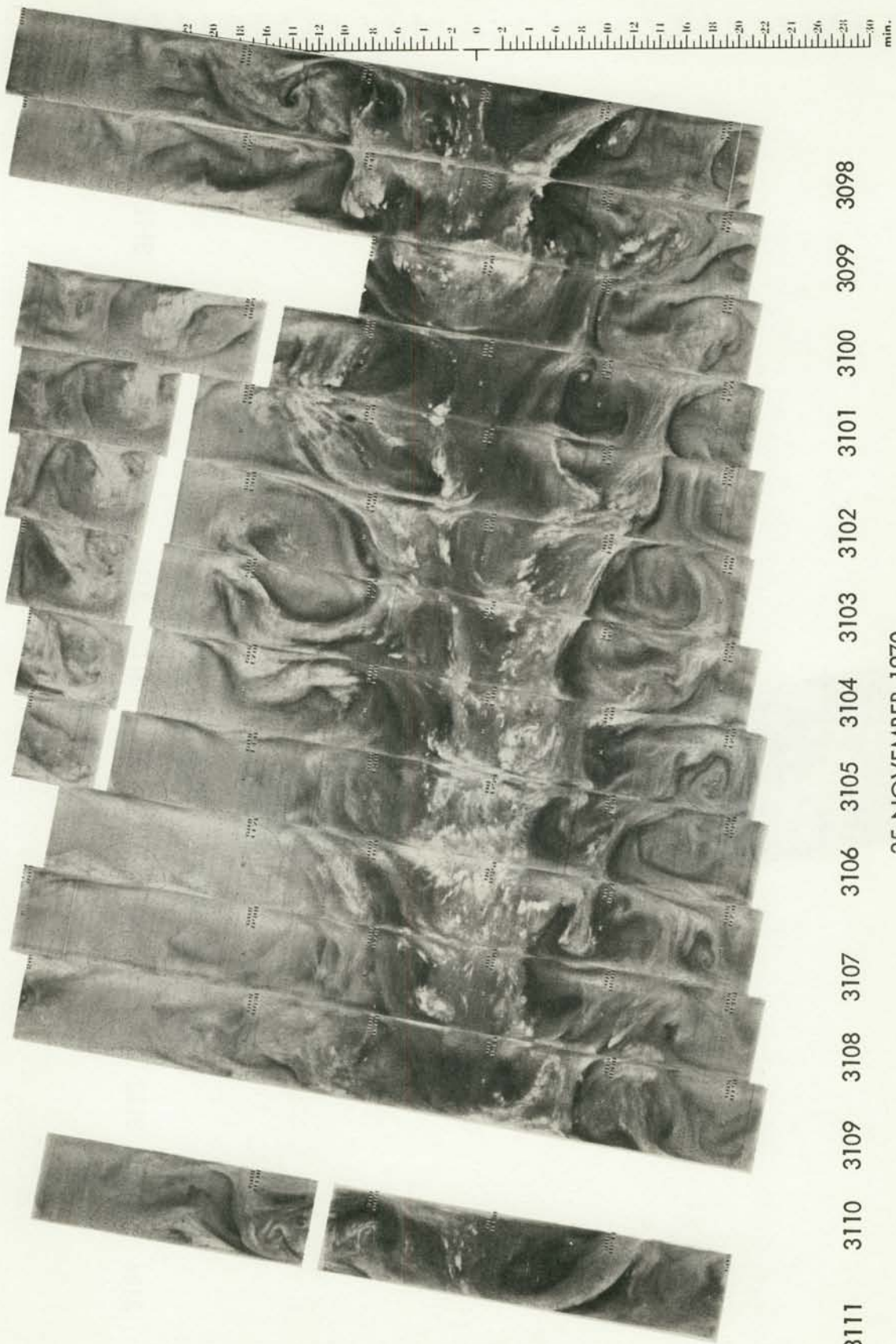


3111 3110 3109 3108 3107 3106 3105 3104 3103 3102 3101 3100 3099 3098

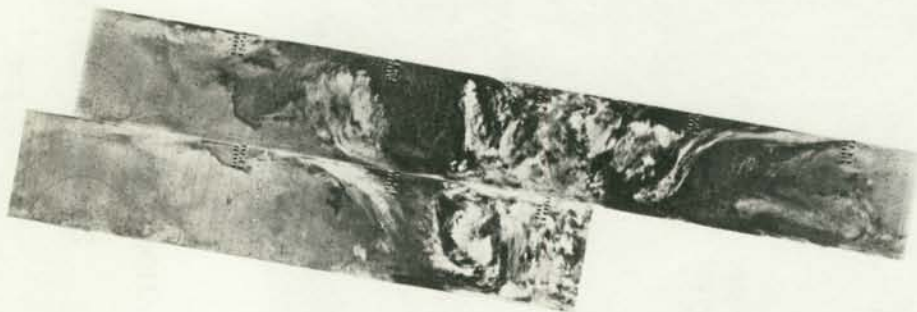
25 NOVEMBER 1970

11.5  $\mu$ m





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

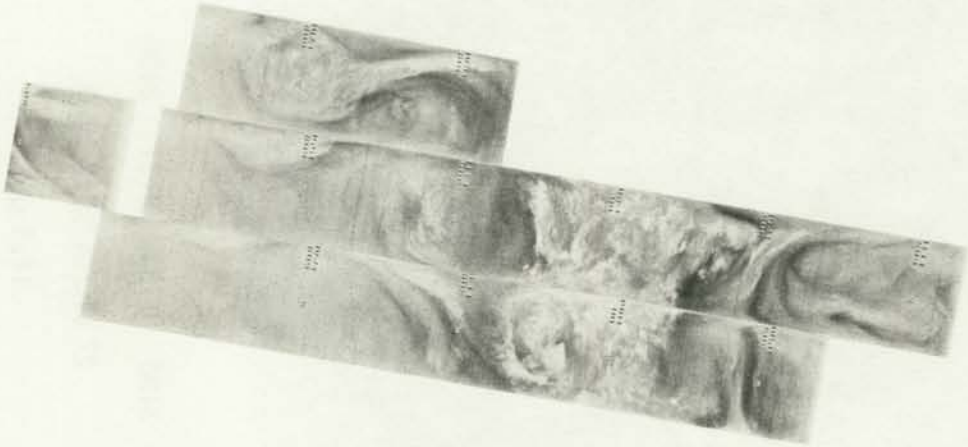
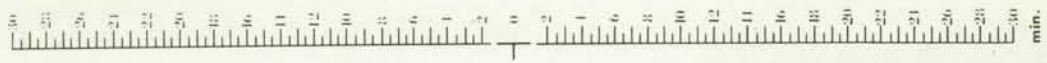


3124 3123 3122 3121 3120 3119 3118 3117 3116 3115 3114 3113 3112

26 NOVEMBER 1970

11.5  $\mu$ m

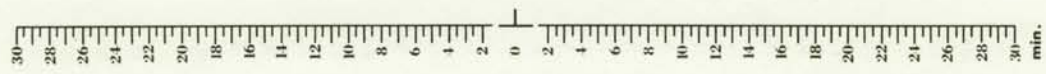
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3124 3123 3122 3121 3120 3119 3118 3117 3116 3115 3114 3113 3112

26 NOVEMBER 1970

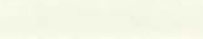
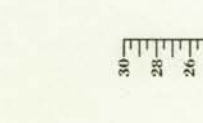
6.7  $\mu$ m





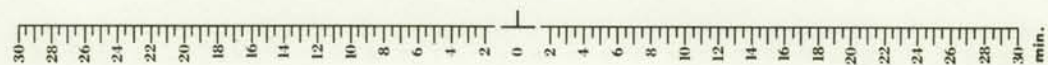


3125 3126 3127 3128 3129 3130 3131 3132 3133 3134 3135 3136 3137 3138



27 NOVEMBER 1970

11.5  $\mu$ m



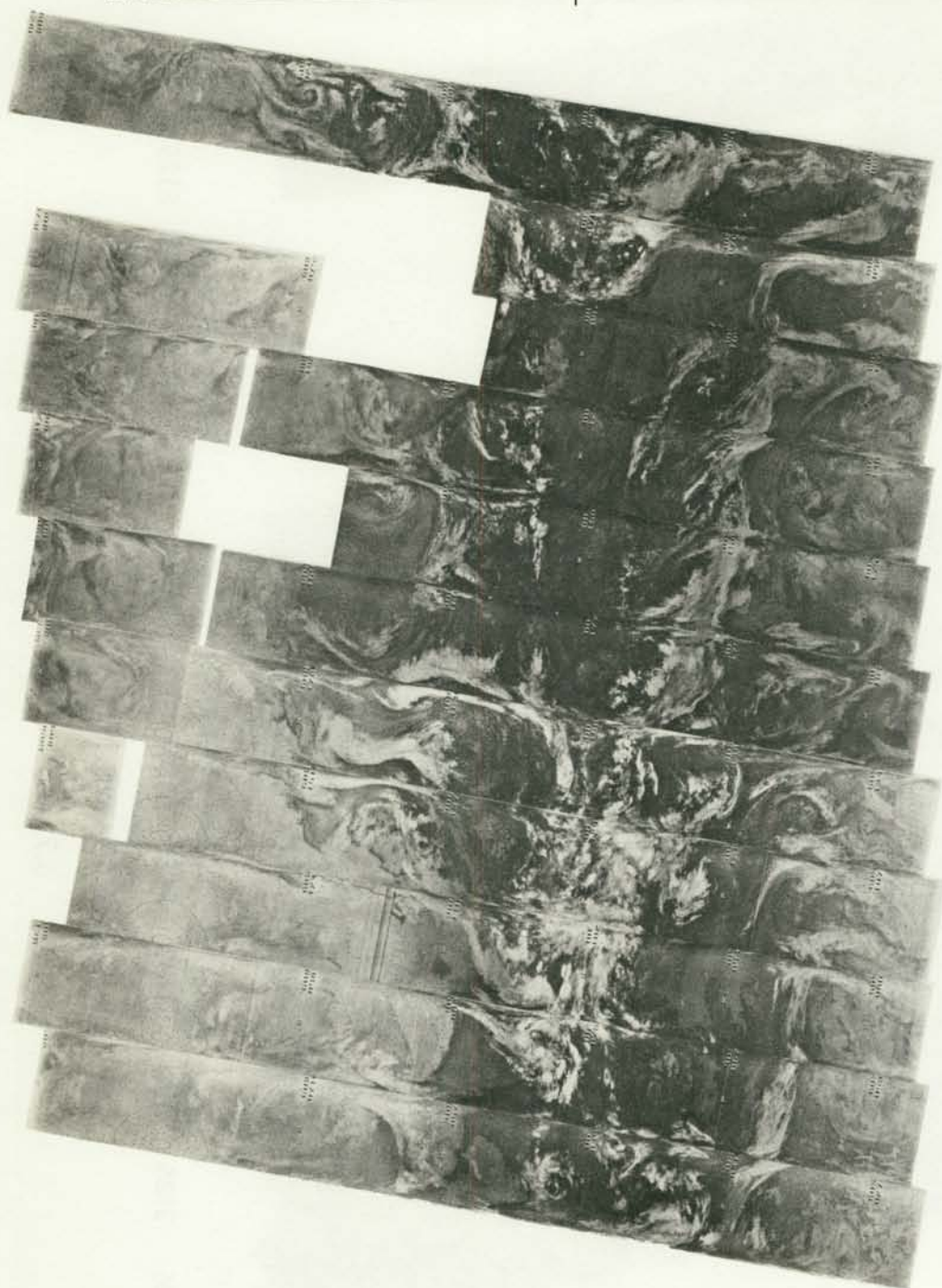




3125 3126 3127 3128 3129 3130 3131 3132 3133 3134 3135 3136 3137 3138

27 NOVEMBER 1970

6.7  $\mu$ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

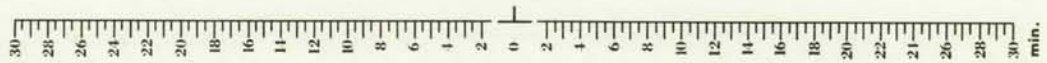
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

3151 3150 3149 3148 3147 3146 3145 3144 3143 3142 3141 3140 3139

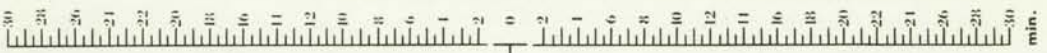
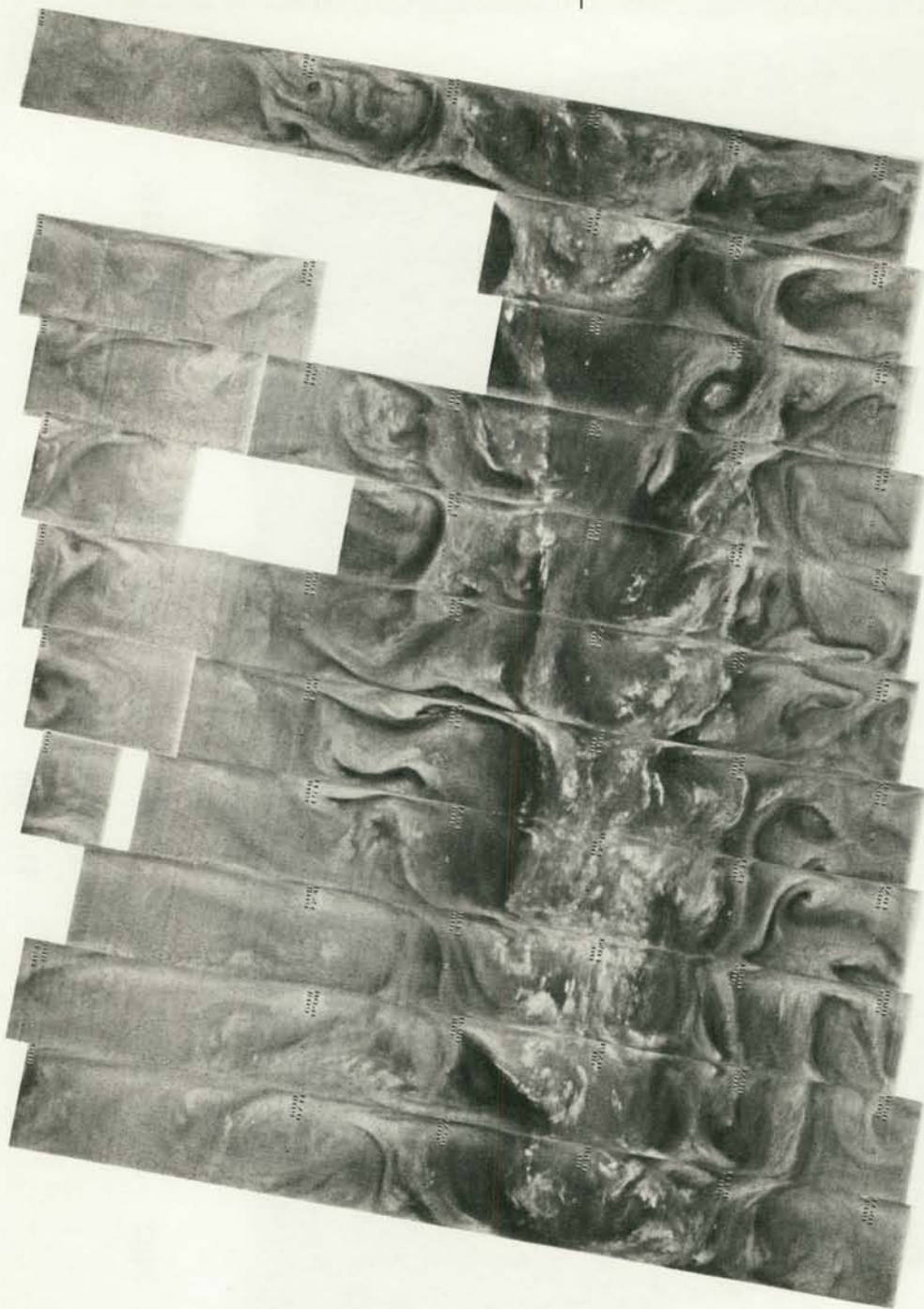
28 NOVEMBER 1970

11.5  $\mu$ m





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best available copy.



3151 3150 3149 3148 3147 3146 3145 3144 3143 3142 3141 3140 3139

28 NOVEMBER 1970

6.7  $\mu$ m



3164 3163 3162 3161 3160 3159 3158 3157 3156 3155 3154 3153 3152

29 NOVEMBER 1970

11.5  $\mu$ m



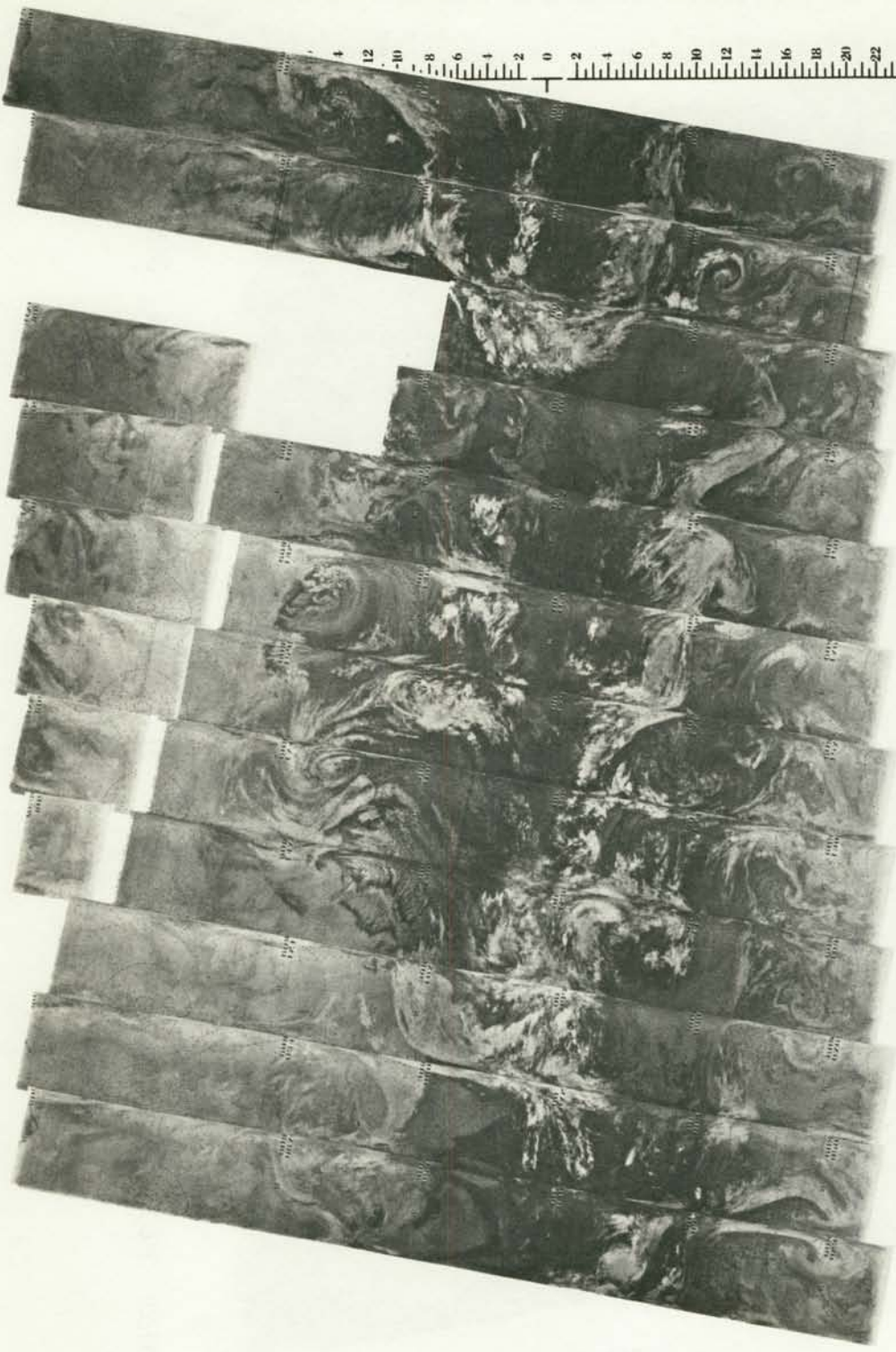
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-61



29 NOVEMBER 1970

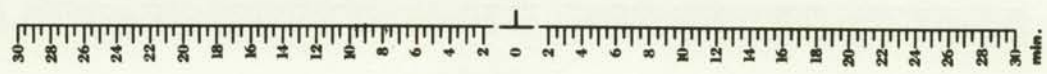
6.7  $\mu$ m



3178 3177 3176 3175 3174 3173 3172 3171 3170 3169 3168 3167 3166 3165

30 NOVEMBER 1970

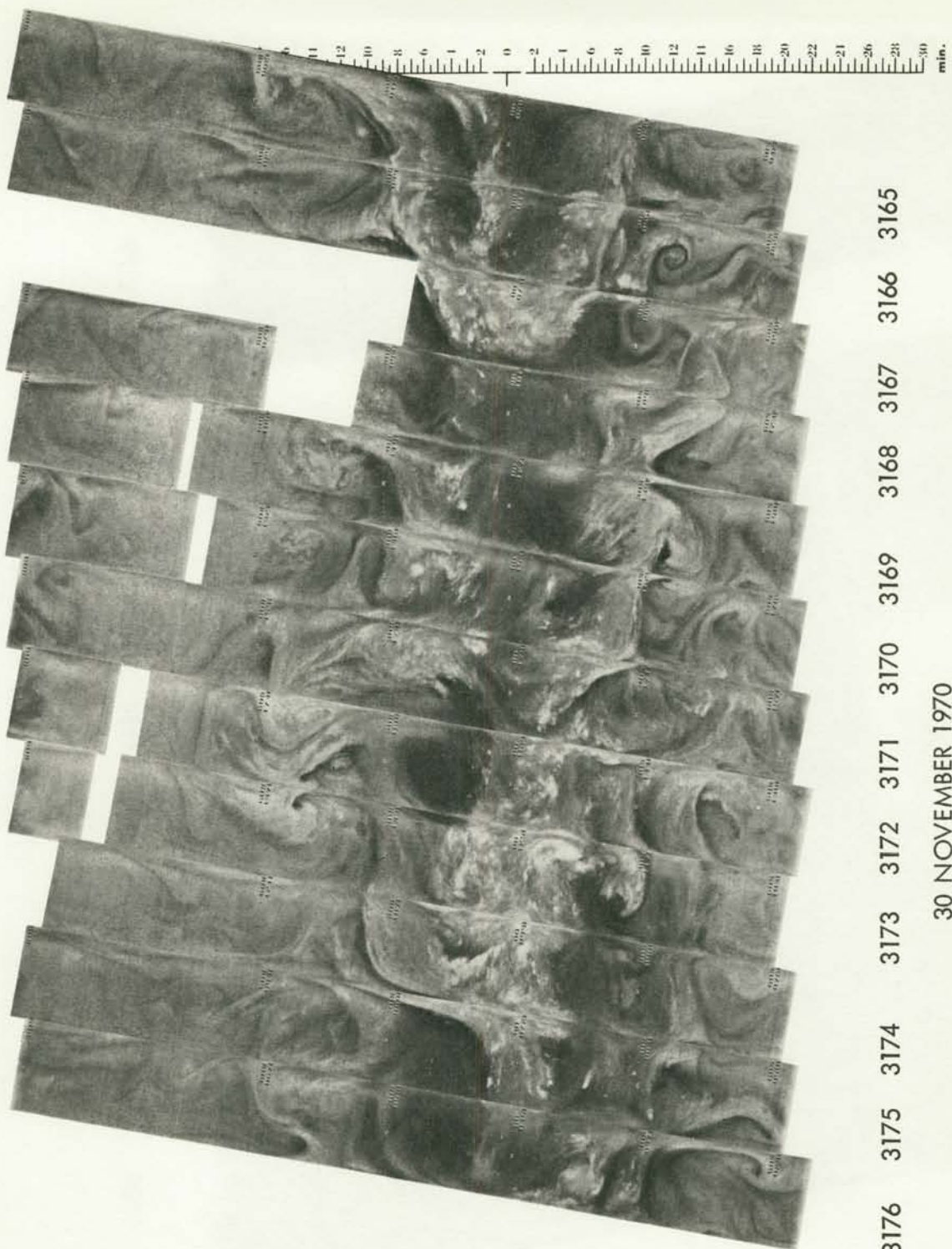
11.5  $\mu$ m





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-63

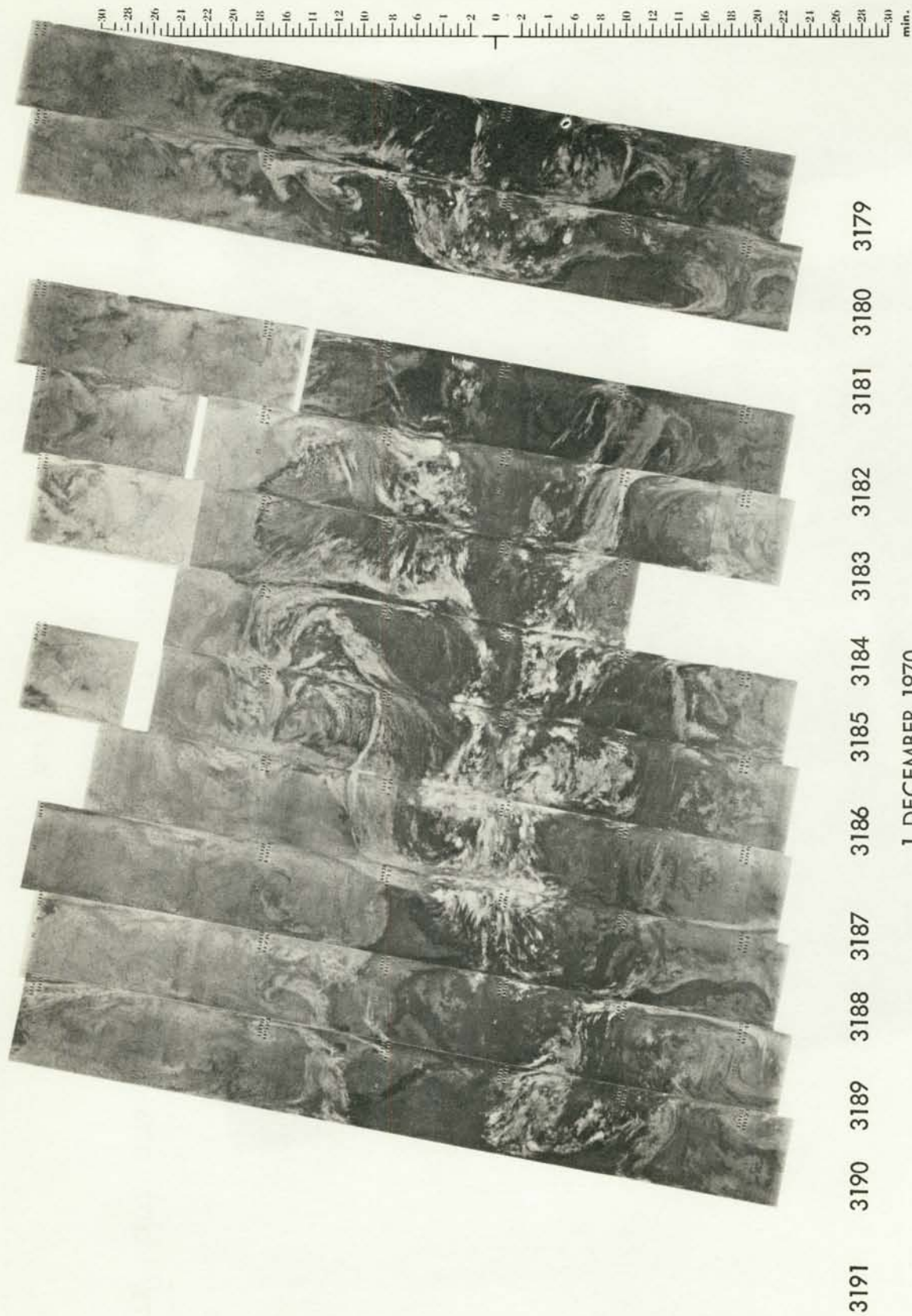


3178 3177 3176 3175 3174 3173 3172 3171 3170 3169 3168 3167 3166 3165

30 NOVEMBER 1970

6.7  $\mu$ m





1 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-65



3191 3190 3189 3188 3187 3186 3185 3184 3183 3182 3181 3180 3179

1 DECEMBER 1970

6.7  $\mu$ m







30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-67



2 DECEMBER 1970

6.7  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



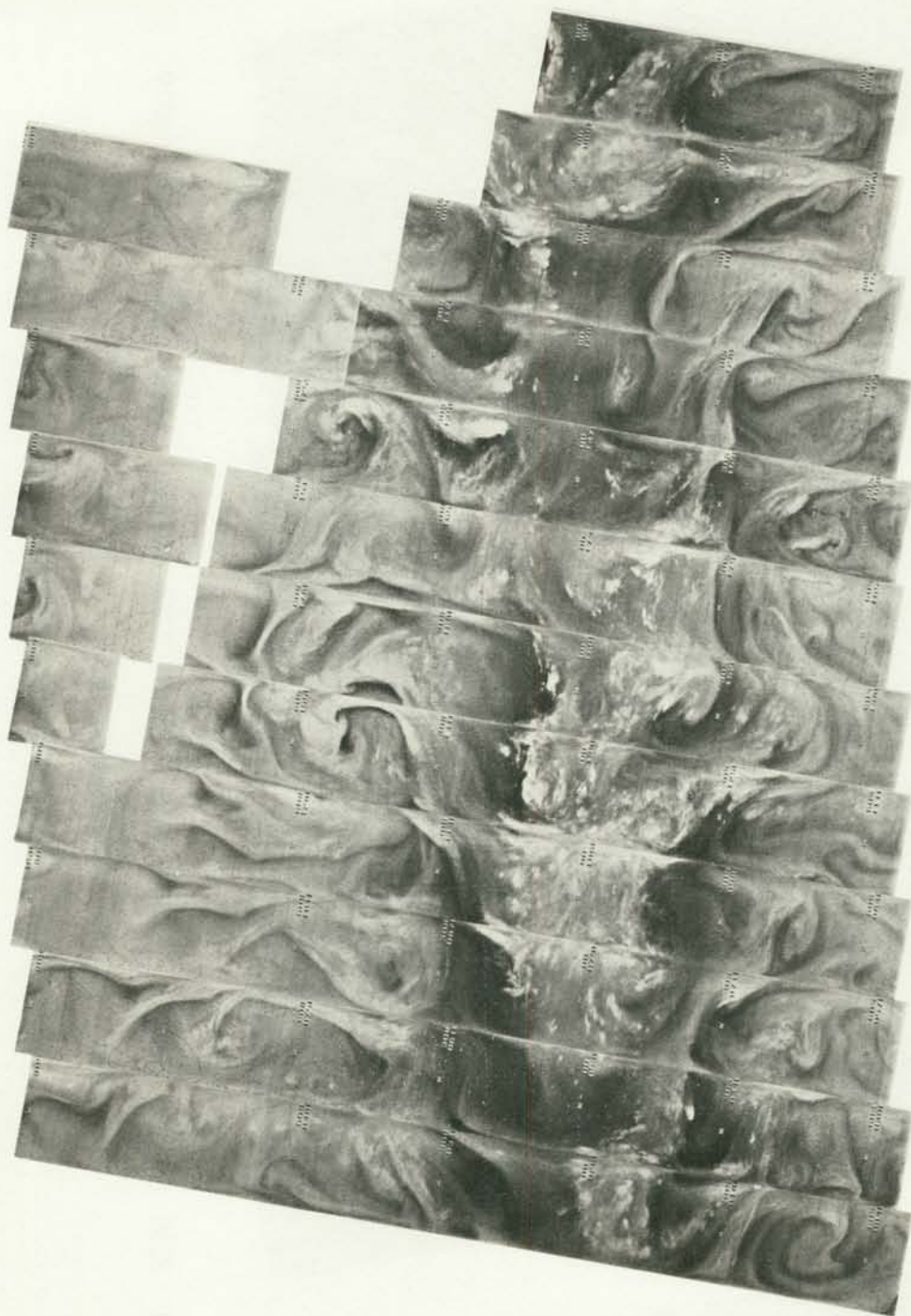
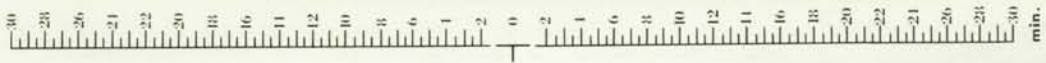
3218 3217 3216 3215 3214 3213 3212 3211 3210 3209 3208 3207 3206

3 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

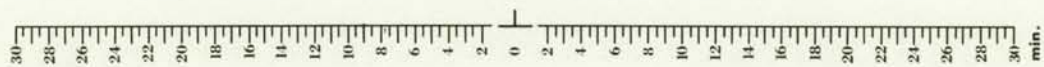




3218 3217 3216 3215 3214 3213 3212 3211 3210 3209 3208 3207 3206

3 DECEMBER 1970

6.7  $\mu\text{m}$

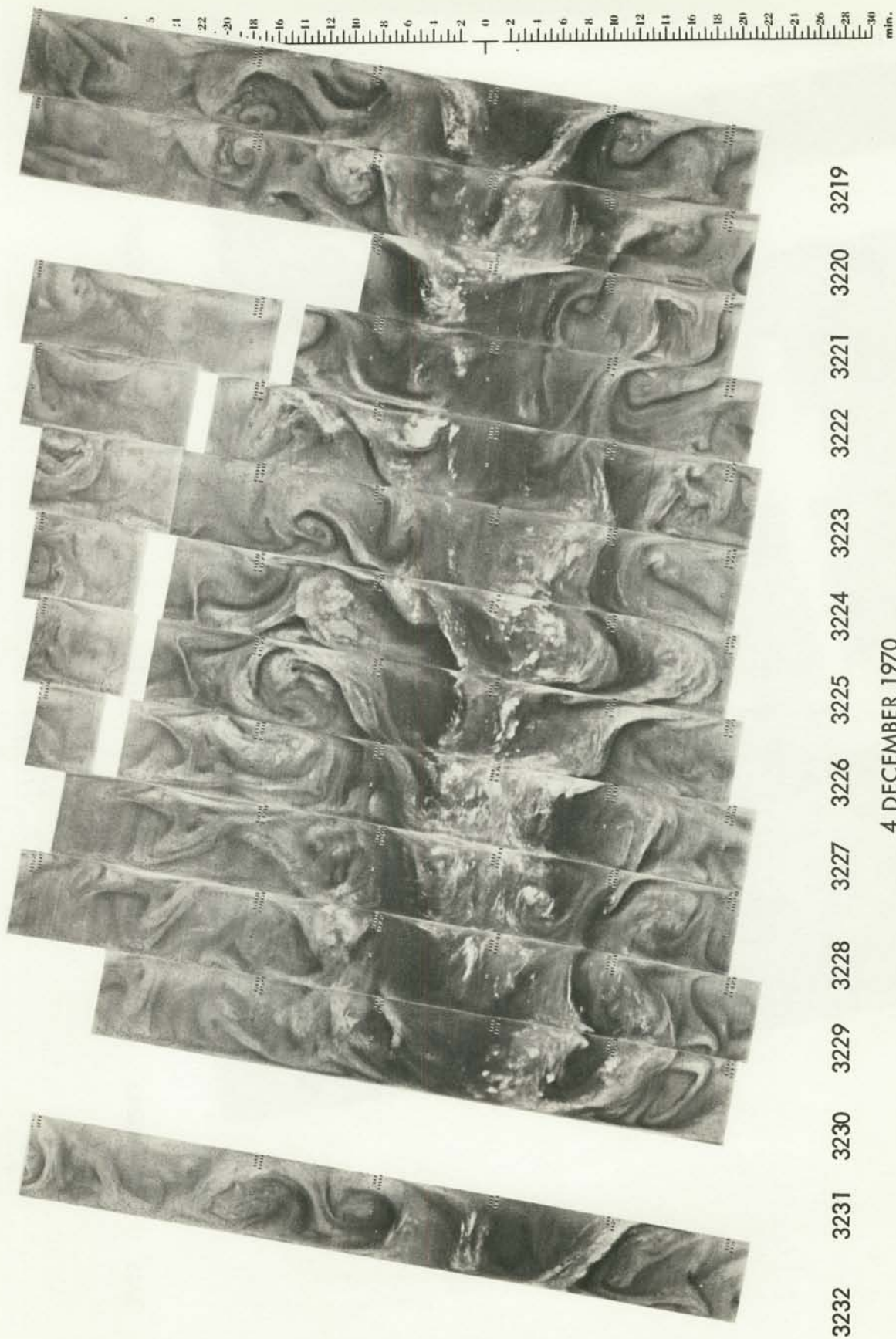






4 DECEMBER 1970

11.5  $\mu$ m



4 DECEMBER 1970

6.7  $\mu$ m







3245 3244 3243 3242 3241 3240 3239 3238 3237 3236 3235 3234 3233

5 DECEMBER 1970

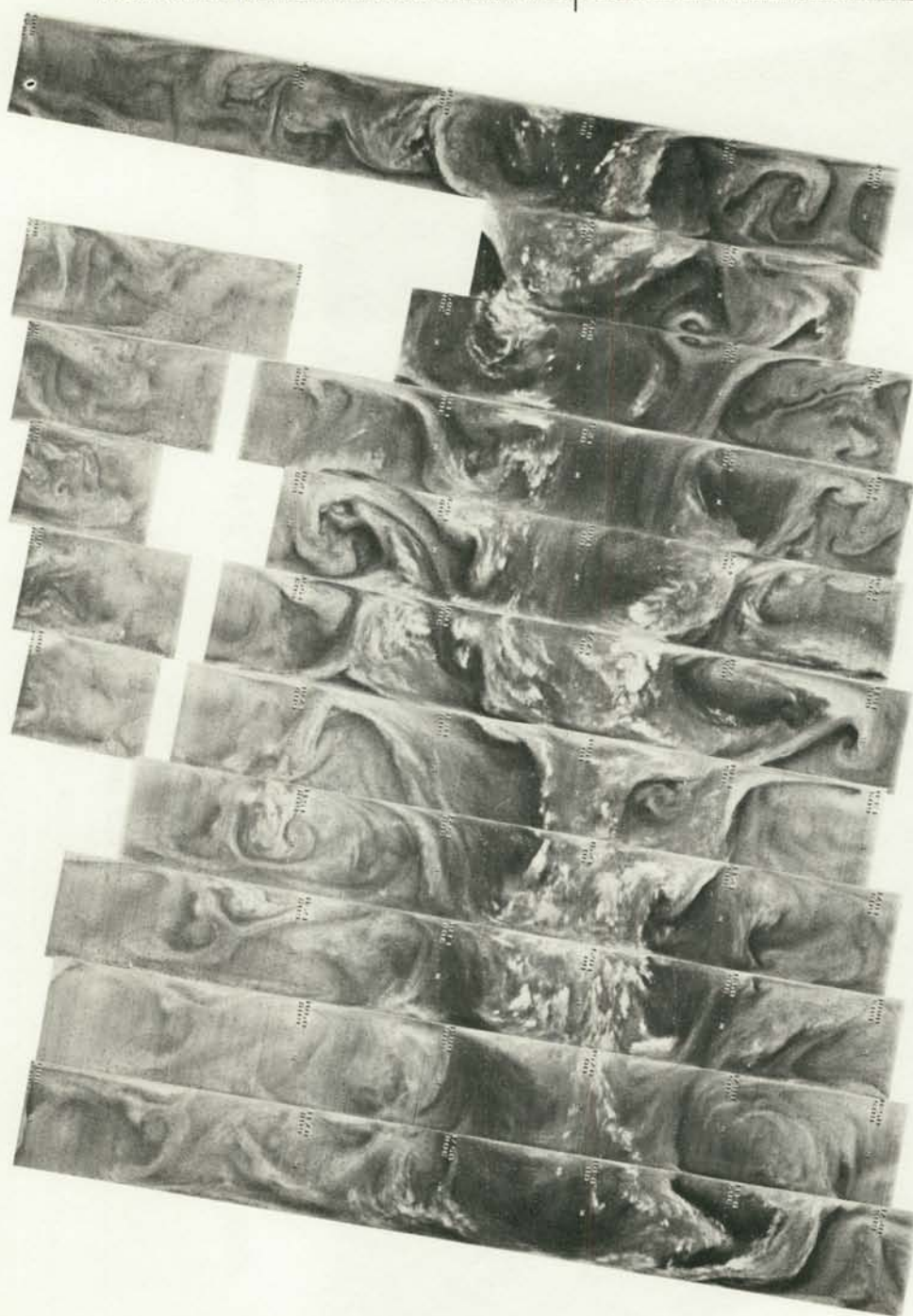
11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3245 3244 3243 3242 3241 3240 3239 3238 3237 3236 3235 3234 3233

5 DECEMBER 1970

6.7  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-74

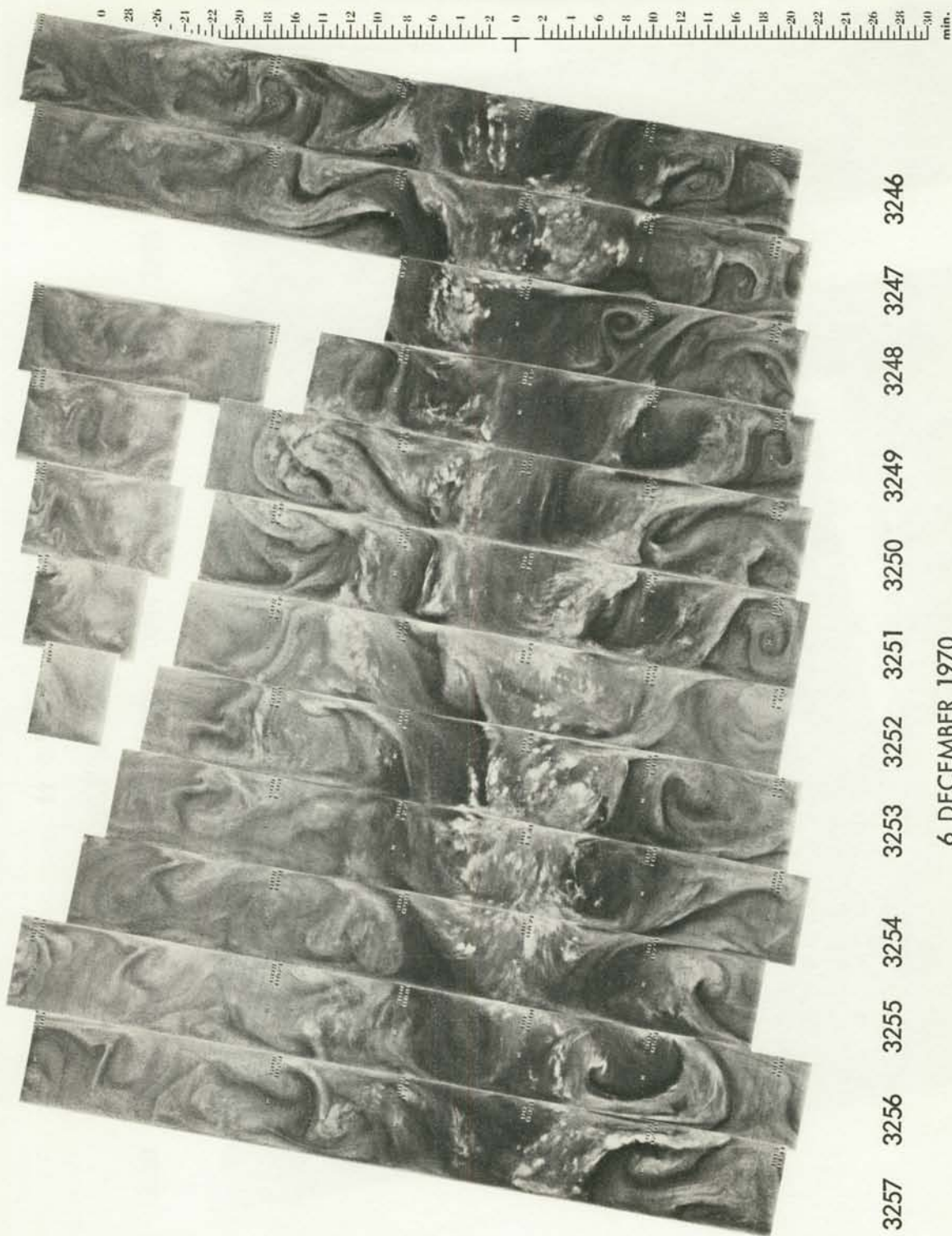


3258 3257 3256 3255 3254 3253 3252 3251 3250 3249 3248 3247 3246

6 DECEMBER 1970

11.5  $\mu$ m





3258 3257 3256 3255 3254 3253 3252 3251 3250 3249 3248 3247 3246

6 DECEMBER 1970

6.7  $\mu$ m

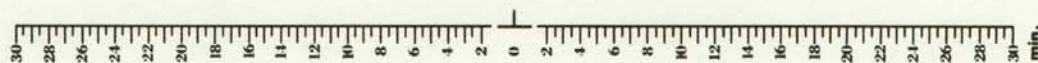




3272 3271 3270 3269 3268 3267 3266 3265 3264 3263 3262 3261 3260 3259

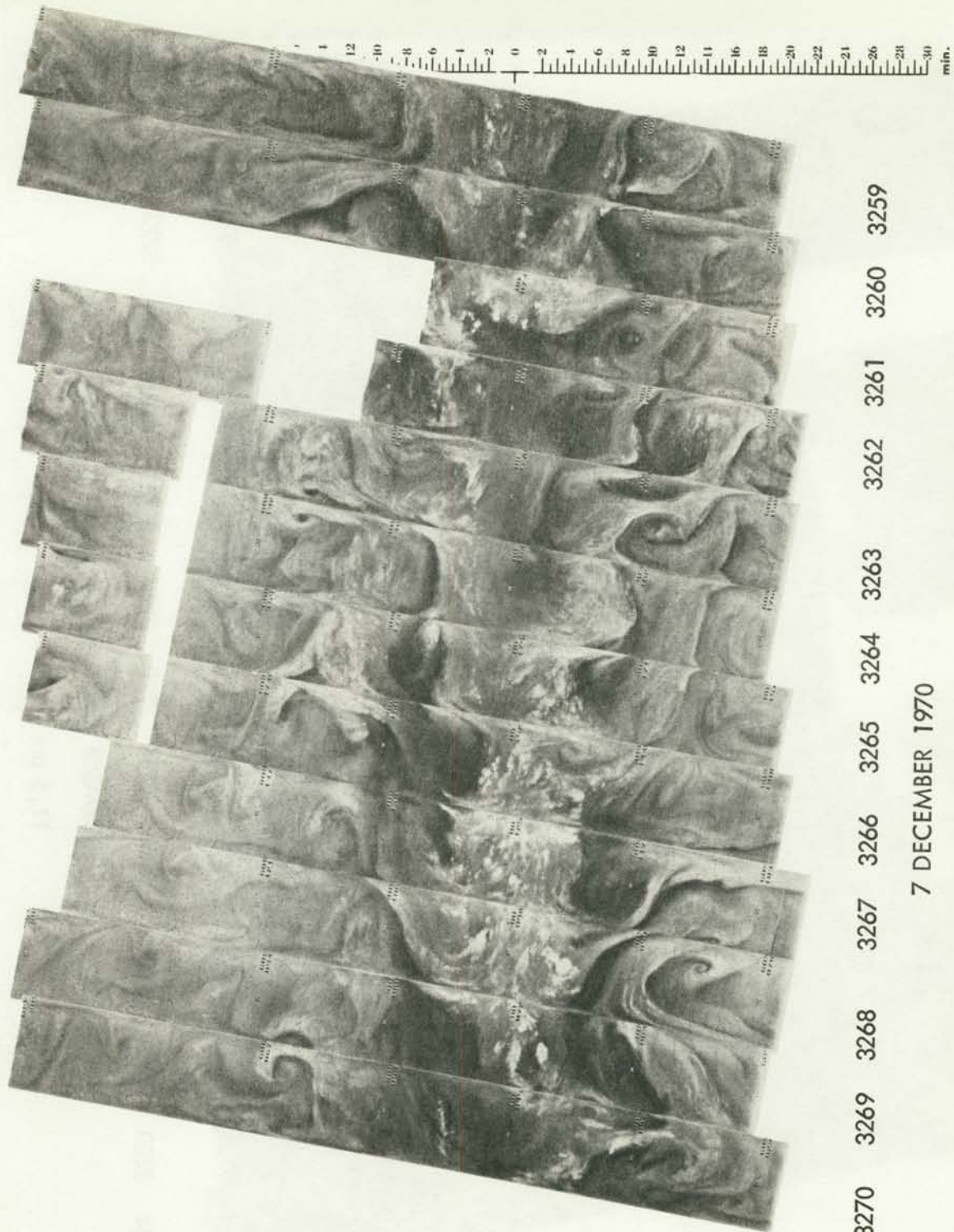
7 DECEMBER 1970

11.5  $\mu$ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-77



7 DECEMBER 1970

6.7  $\mu$ m



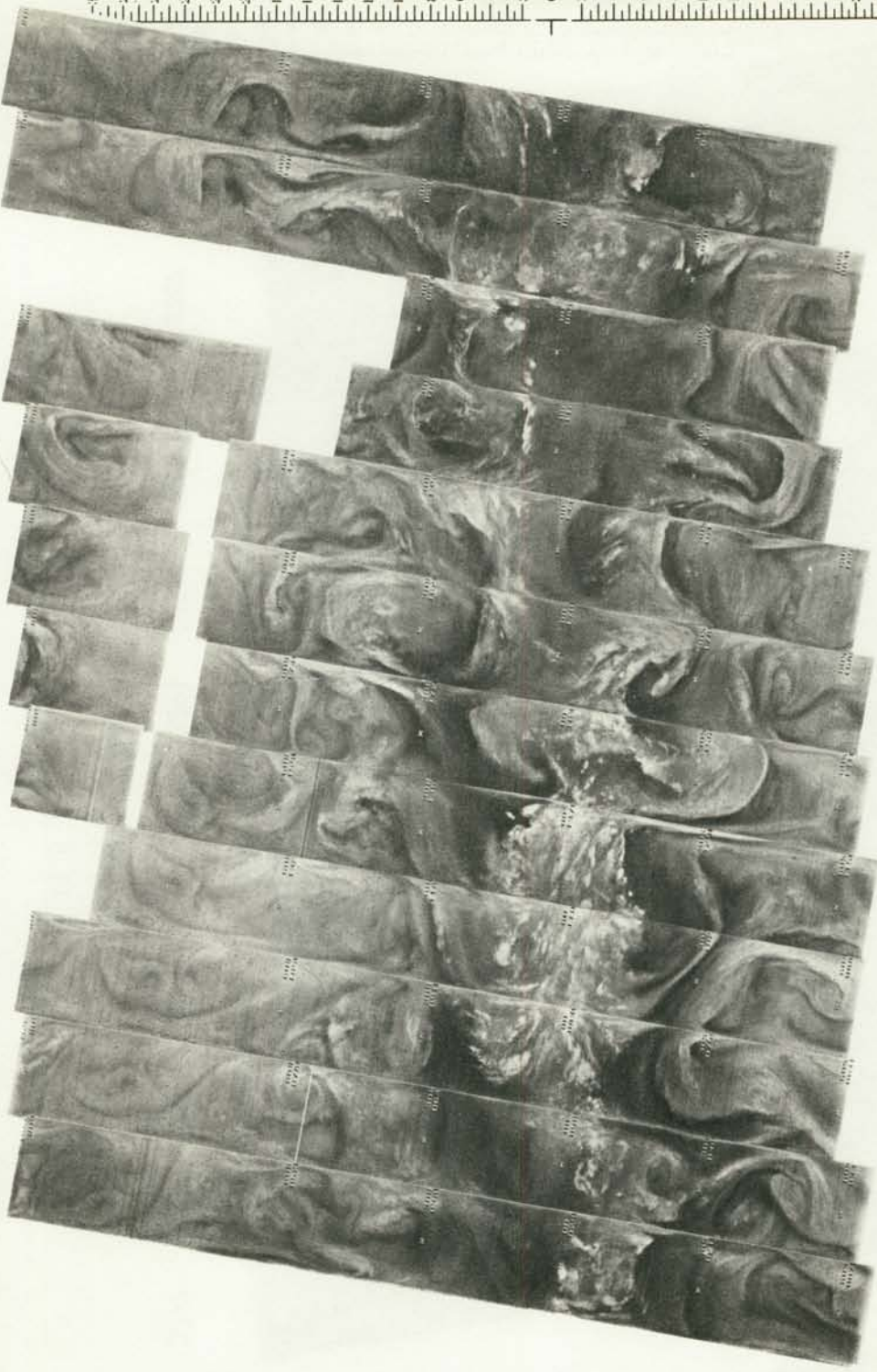


8 DECEMBER 1970

11.5  $\mu$ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3285 3284 3283 3282 3281 3280 3279 3278 3277 3276 3275 3274 3273

8 DECEMBER 1970

6.7  $\mu$ m

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30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

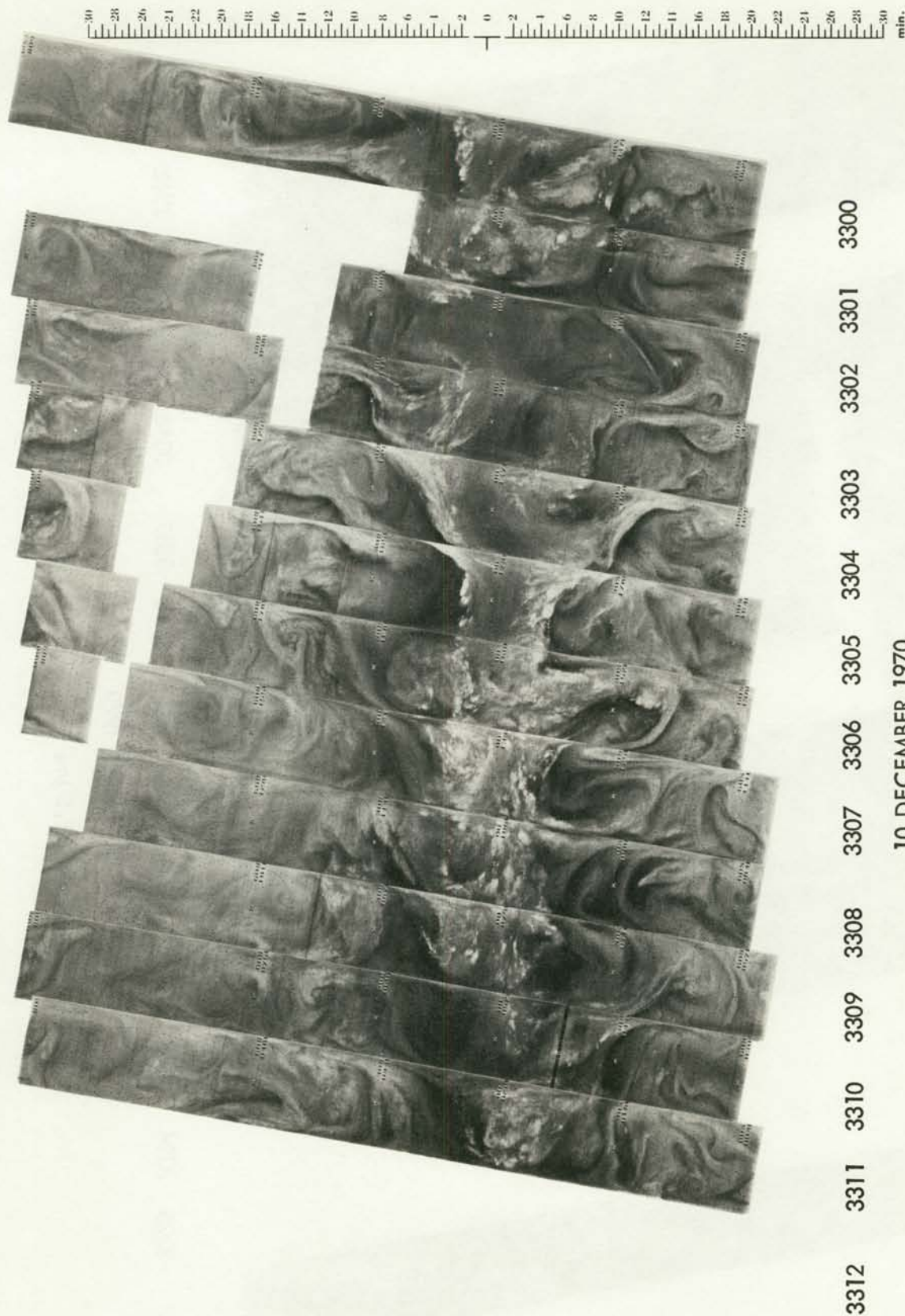












3312 3311 3310 3309 3308 3307 3306 3305 3304 3303 3302 3301 3300

10 DECEMBER 1970

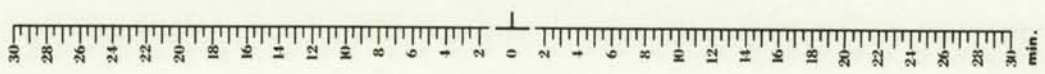
6.7  $\mu$ m





11 DECEMBER 1970

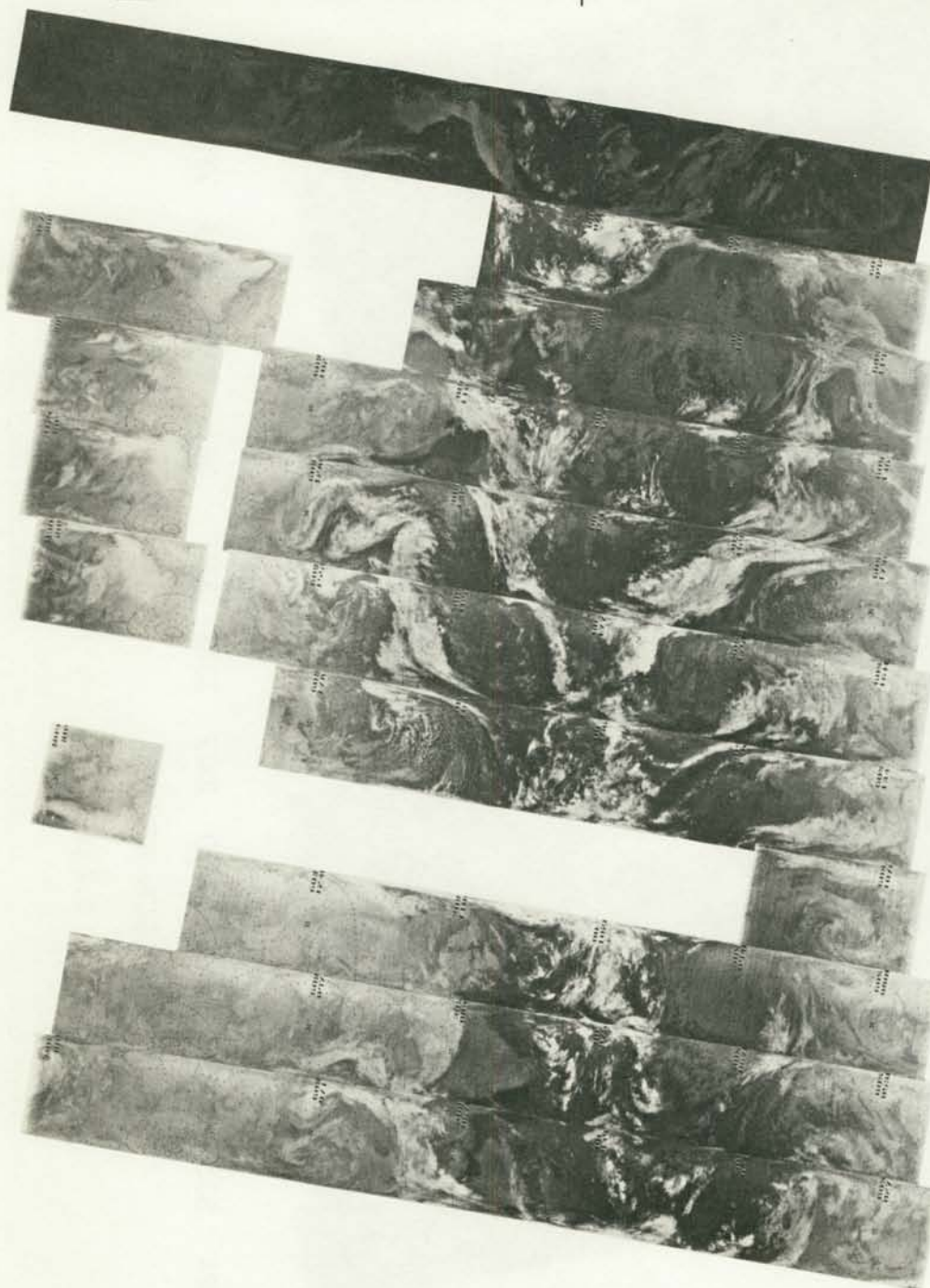
11.5  $\mu$ m







30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3339 3338 3337 3336 3335 3334 3333 3332 3331 3330 3329 3328 3327

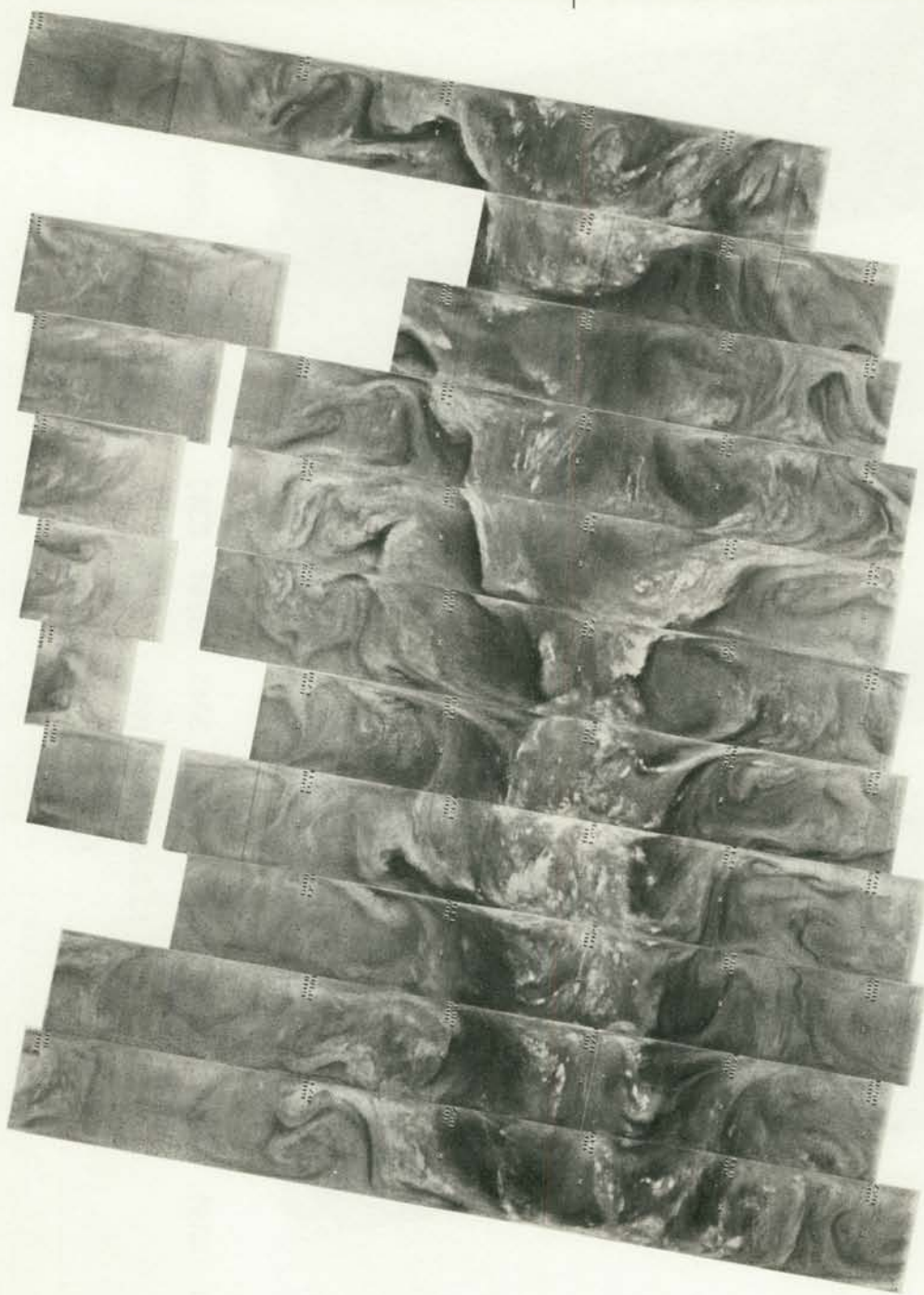
12 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3339 3338 3337 3336 3335 3334 3333 3332 3331 3330 3329 3328 3327

12 DECEMBER 1970

6.7  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.





13 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-89





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-90



14 DECEMBER 1970

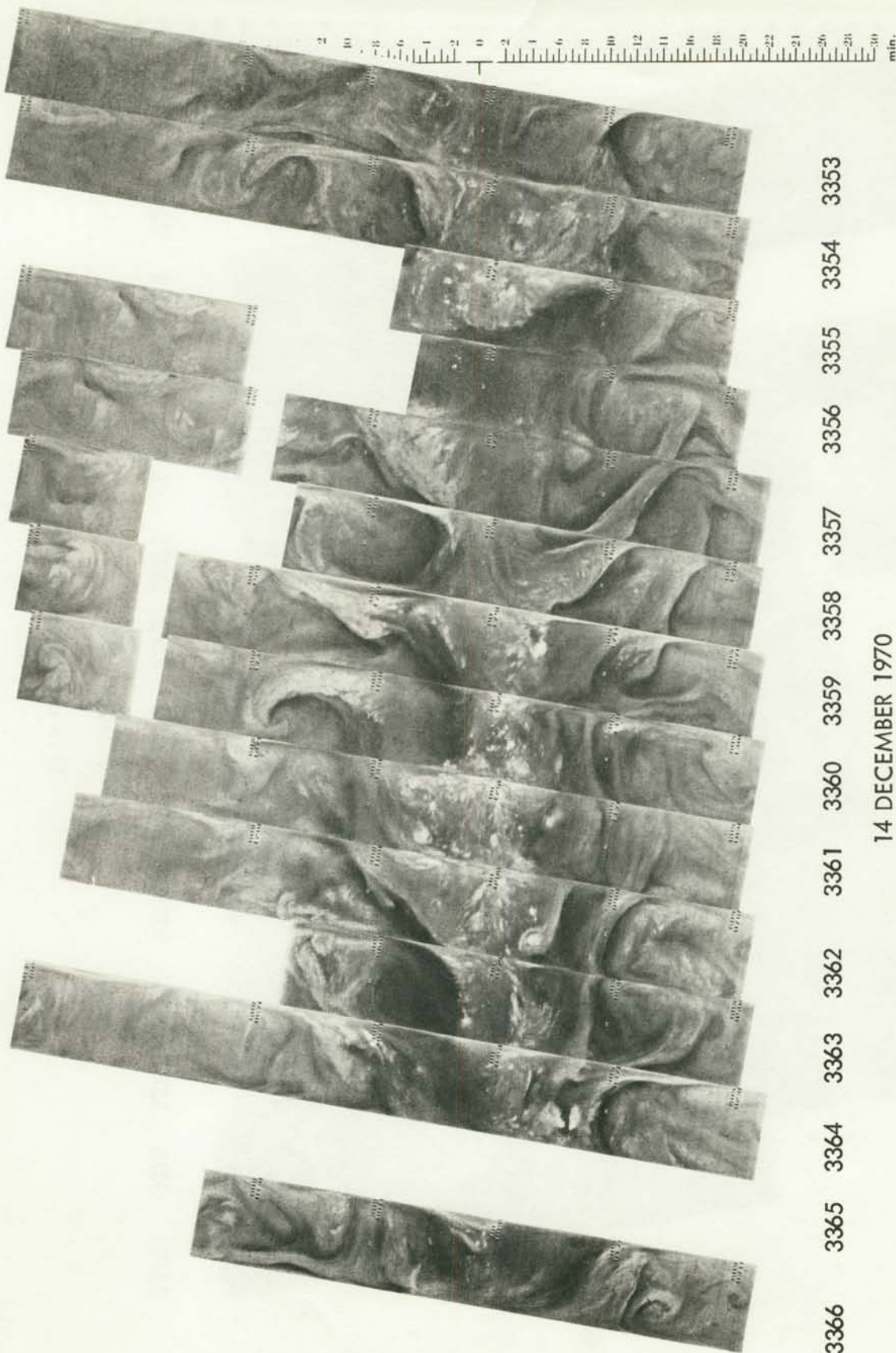
11.5  $\mu$ m

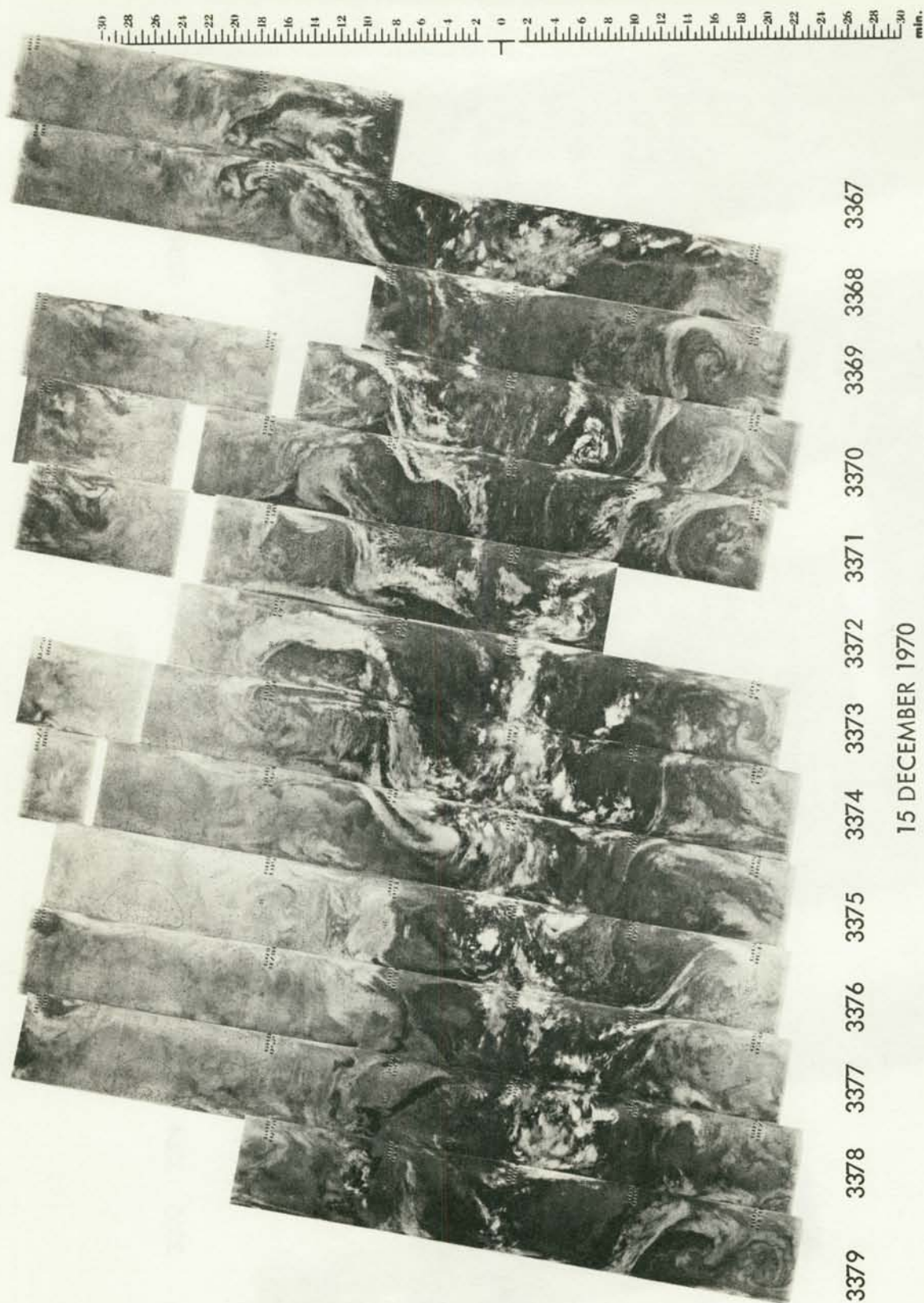
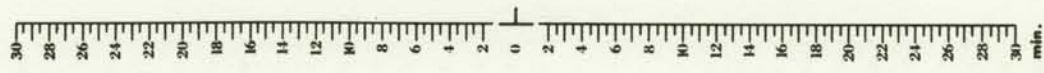


5-5

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-91





15 DECEMBER 1970

11.5  $\mu$ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-93



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

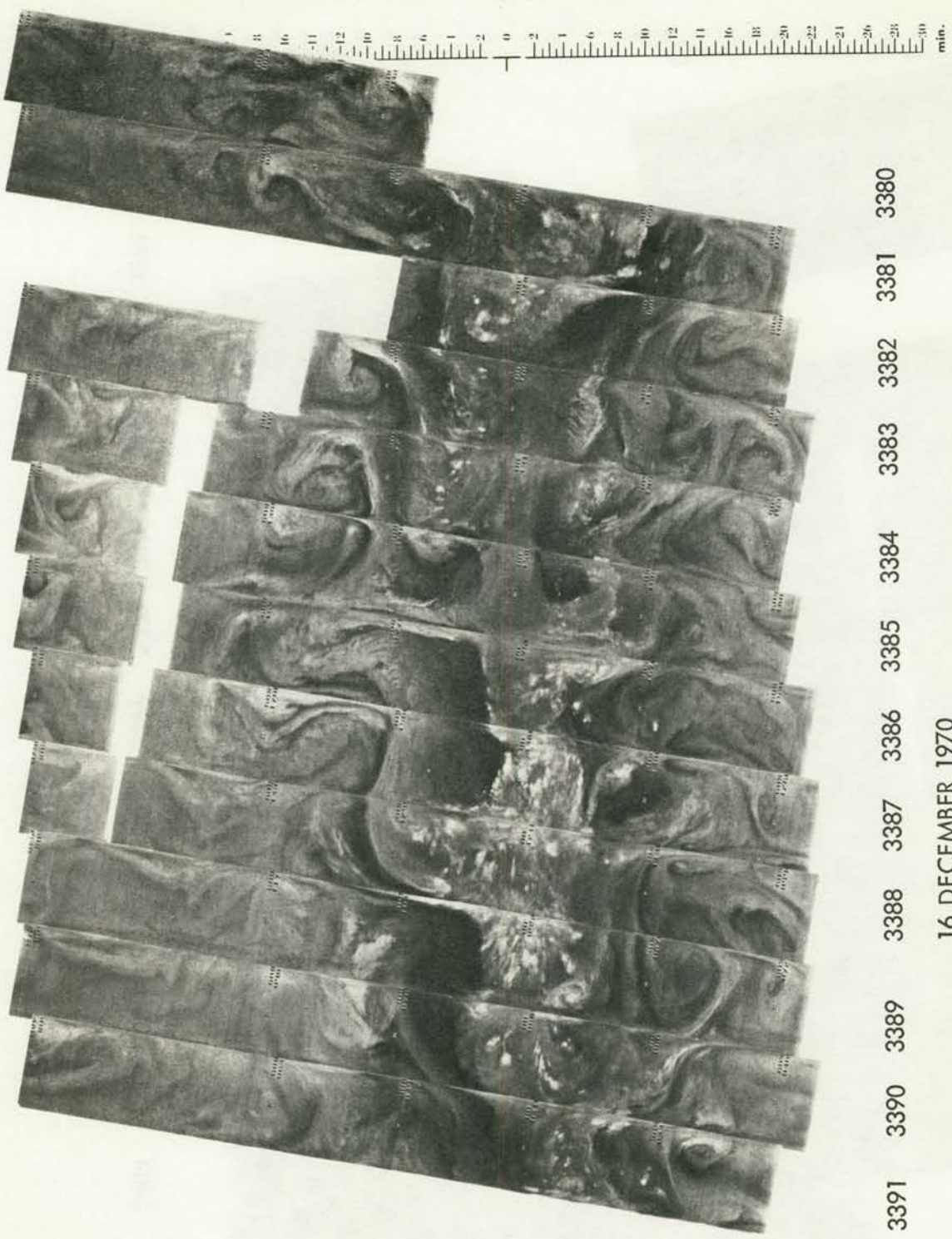




16 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



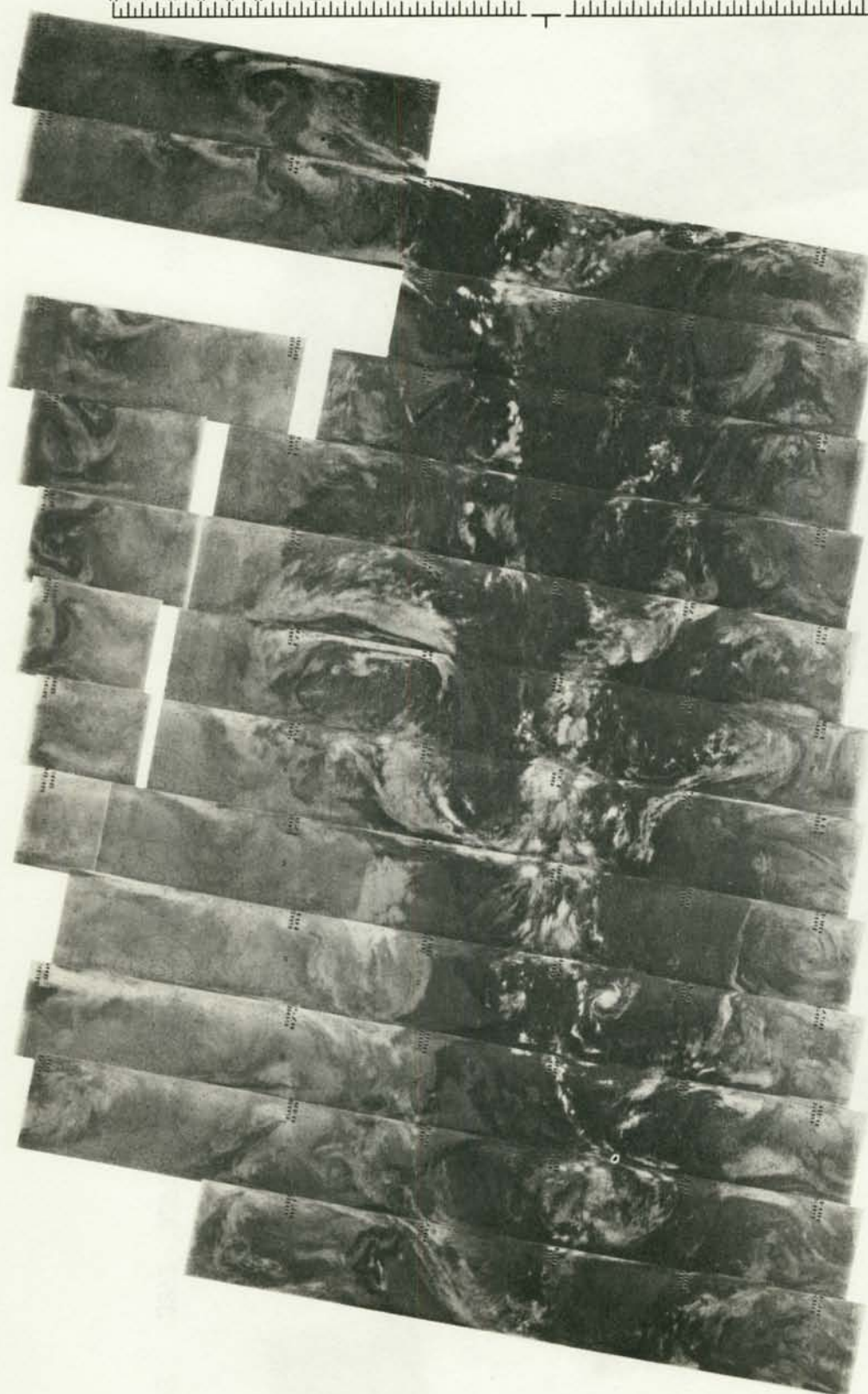
3393 3392 3391 3390 3389 3388 3387 3386 3385 3384 3383 3382 3381 3380

16 DECEMBER 1970

6.7  $\mu$ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3406 3405 3404 3403 3402 3401 3400 3399 3398 3397 3396 3395 3394

17 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



34 21 24 21 22 24 18 16 11 12 10 8 6 1 2 0 2 1 6 8 10 12 11 16 18 20 22 24 26 28 30 min.

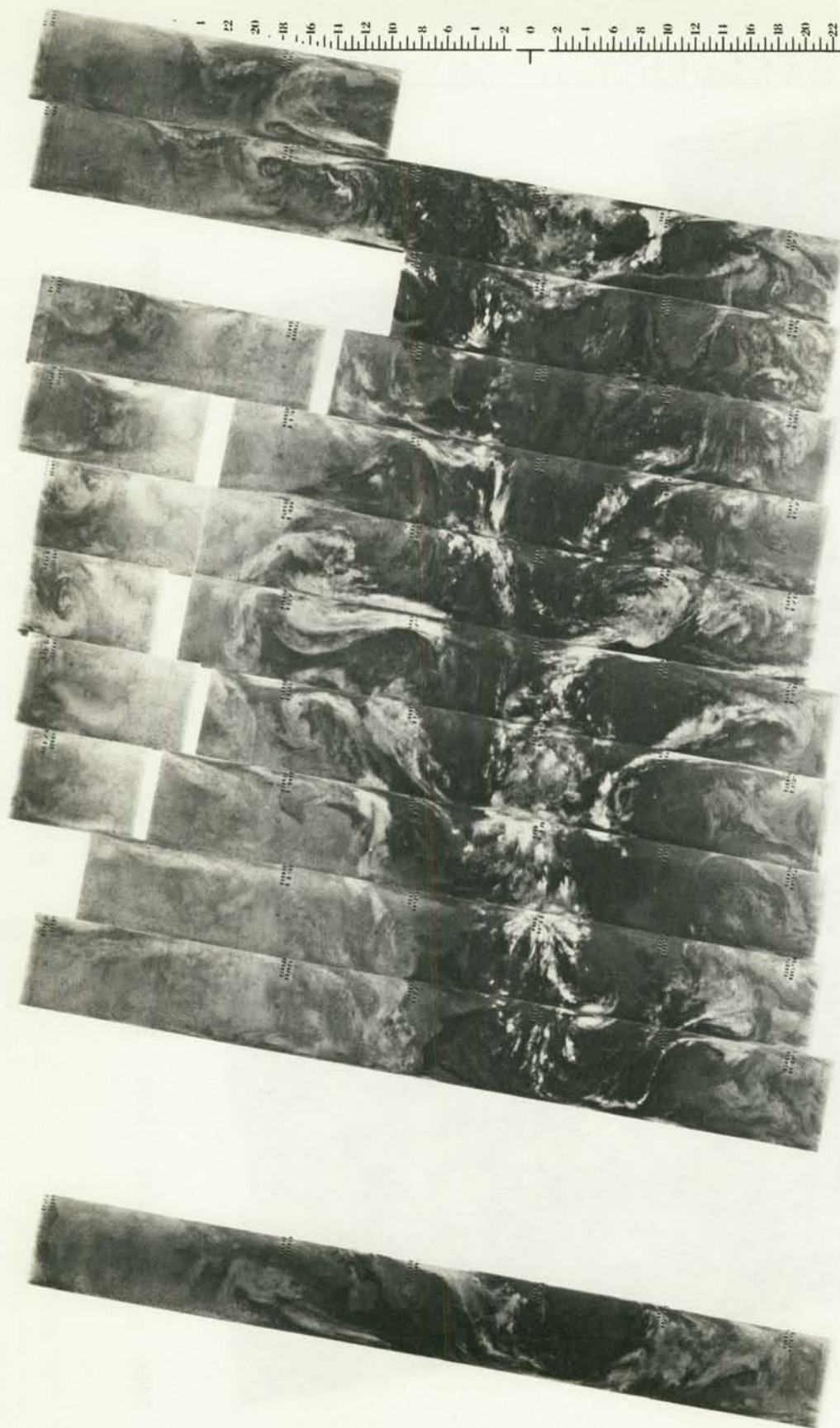


3406 3405 3404 3403 3402 3401 3400 3399 3398 3397 3396 3395 3394

17 DECEMBER 1970

6.7  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3420 3419 3418 3417 3416 3415 3414 3413 3412 3411 3410 3409 3408 3407

18 DECEMBER 1970

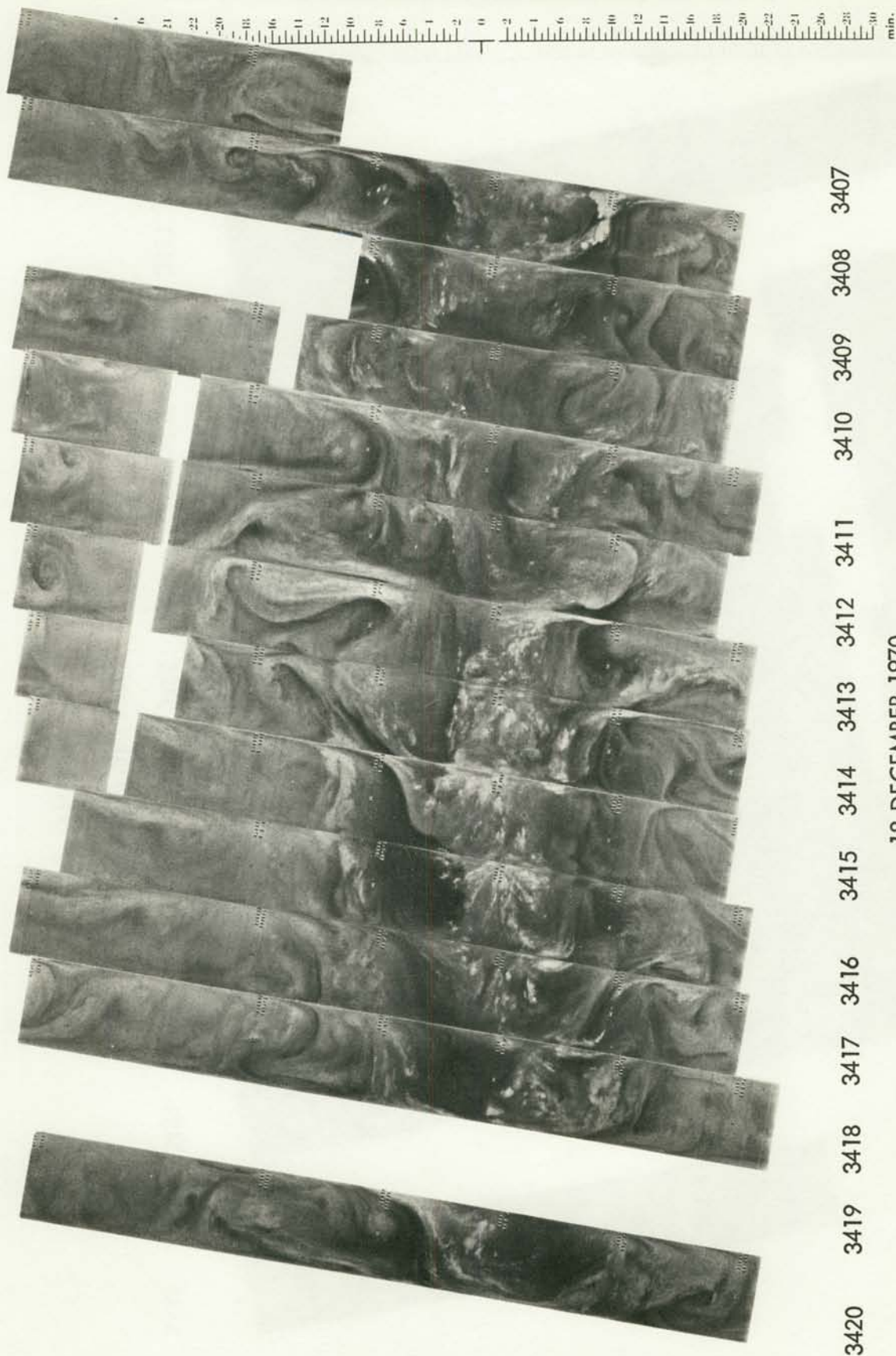
11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

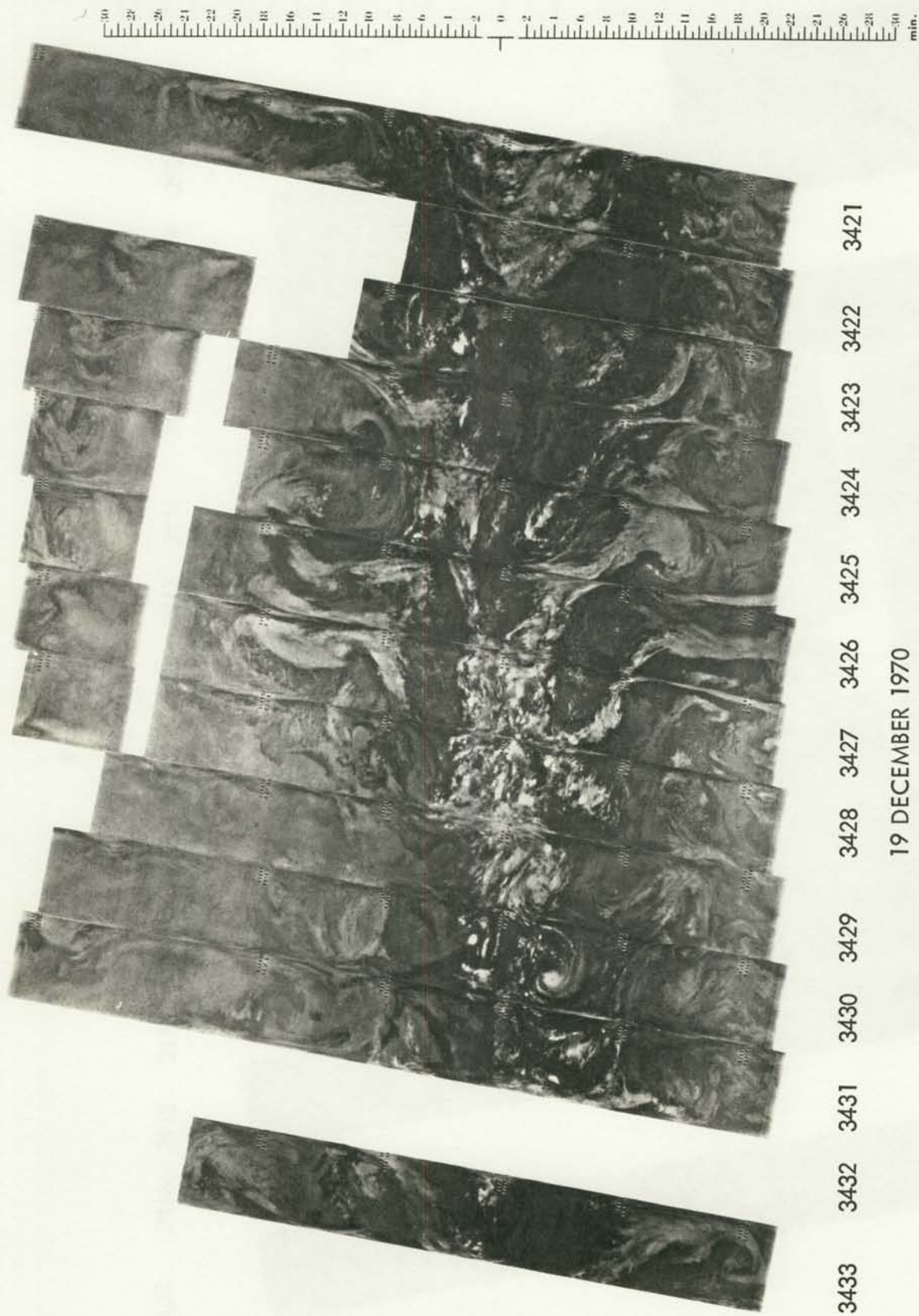


30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

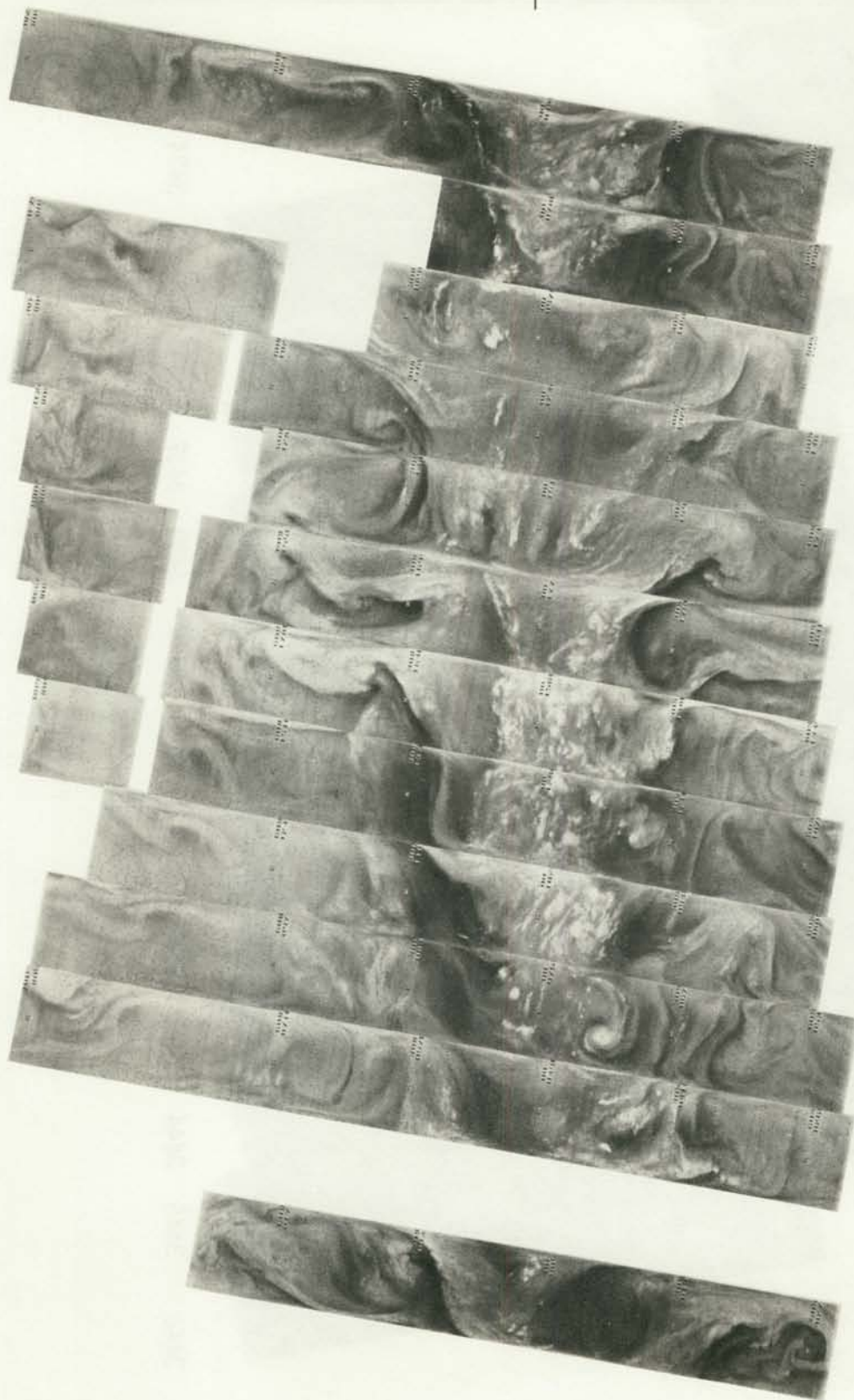
4-99







30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



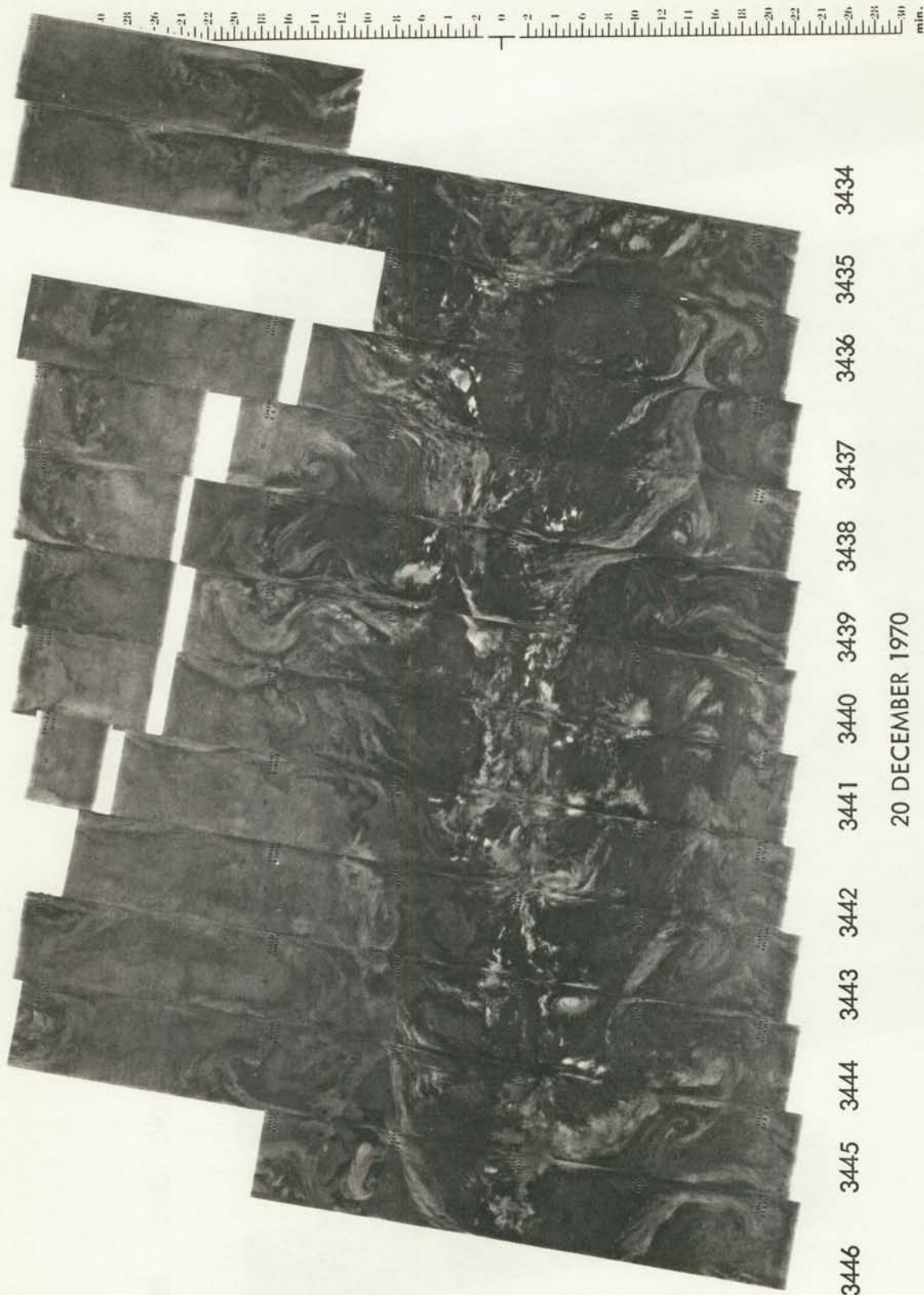
3433 3432 3431 3430 3429 3428 3427 3426 3425 3424 3423 3422 3421

19 DECEMBER 1970

6.7  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

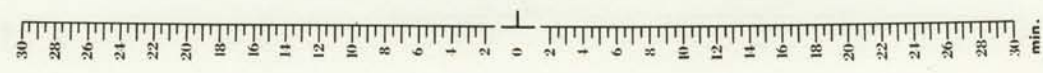




3446 3445 3444 3443 3442 3441 3440 3439 3438 3437 3436 3435 3434

20 DECEMBER 1970

11.5  $\mu$ m





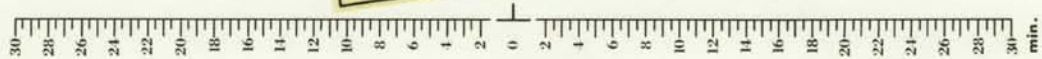


3446 3445 3444 3443 3442 3441 3440 3439 3438 3437 3436 3435 3434

20 DECEMBER 1970

6.7  $\mu$ m

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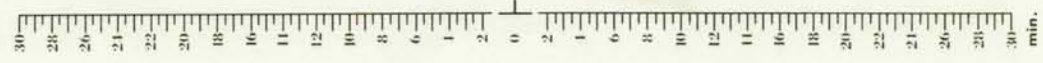




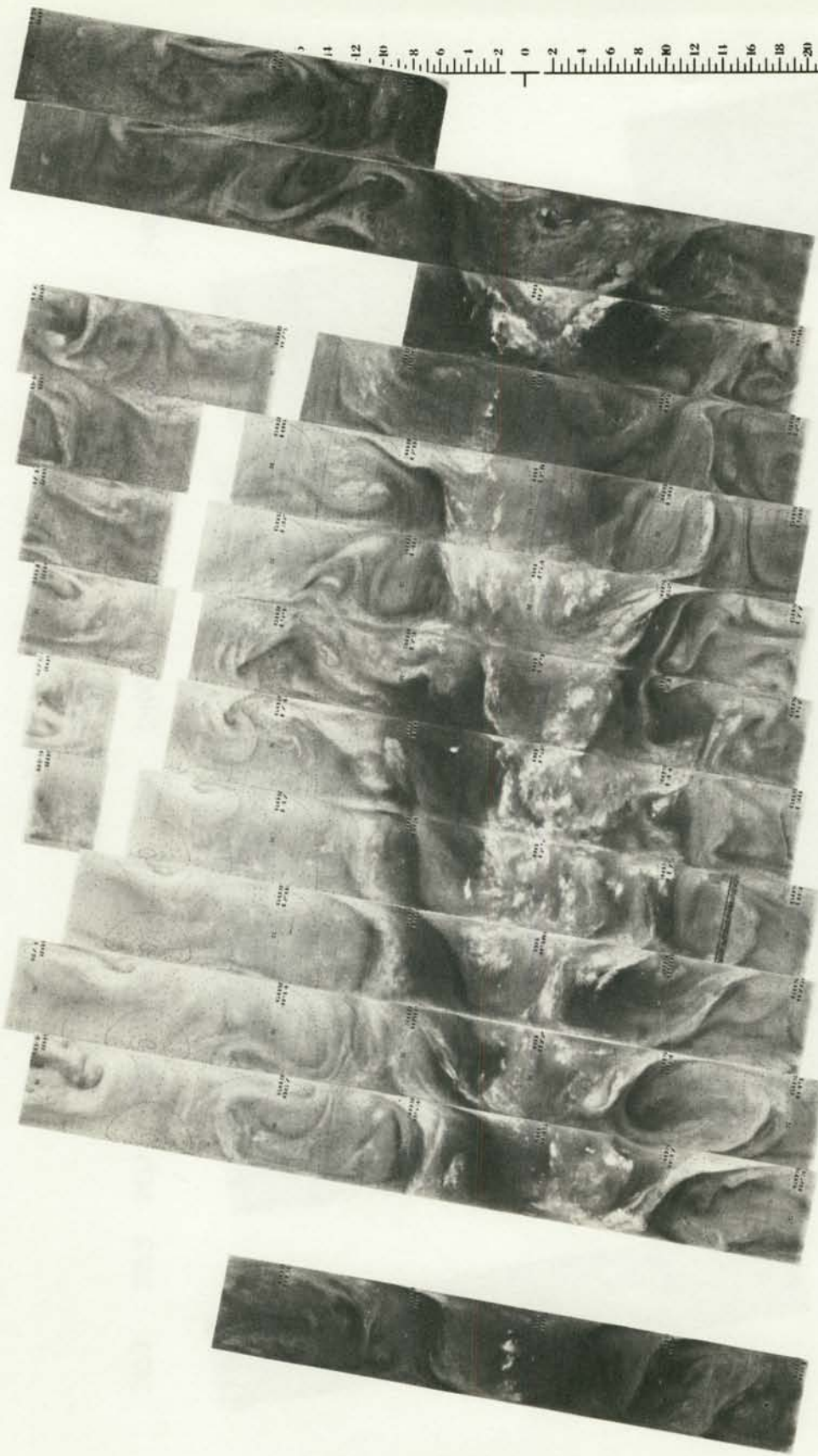
3447 3448 3449 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3460

21 DECEMBER 1970

11.5  $\mu$ m







3447 3448 3449 3450 3451 3452 3453 3454 3455 3456 3457 3458 3459 3460

21 DECEMBER 1970

6.7  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.











23 DECEMBER 1970

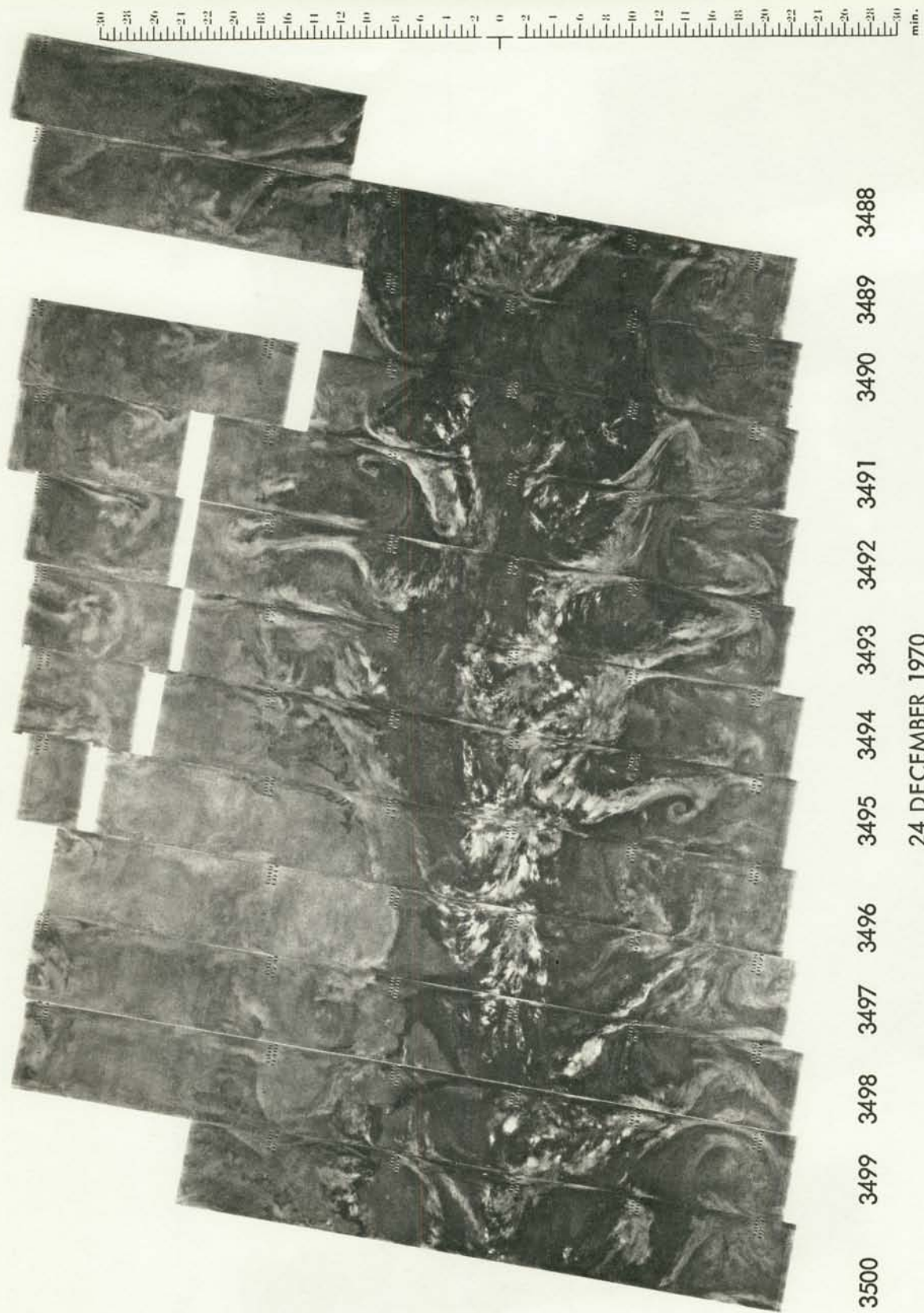
11.5  $\mu$ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

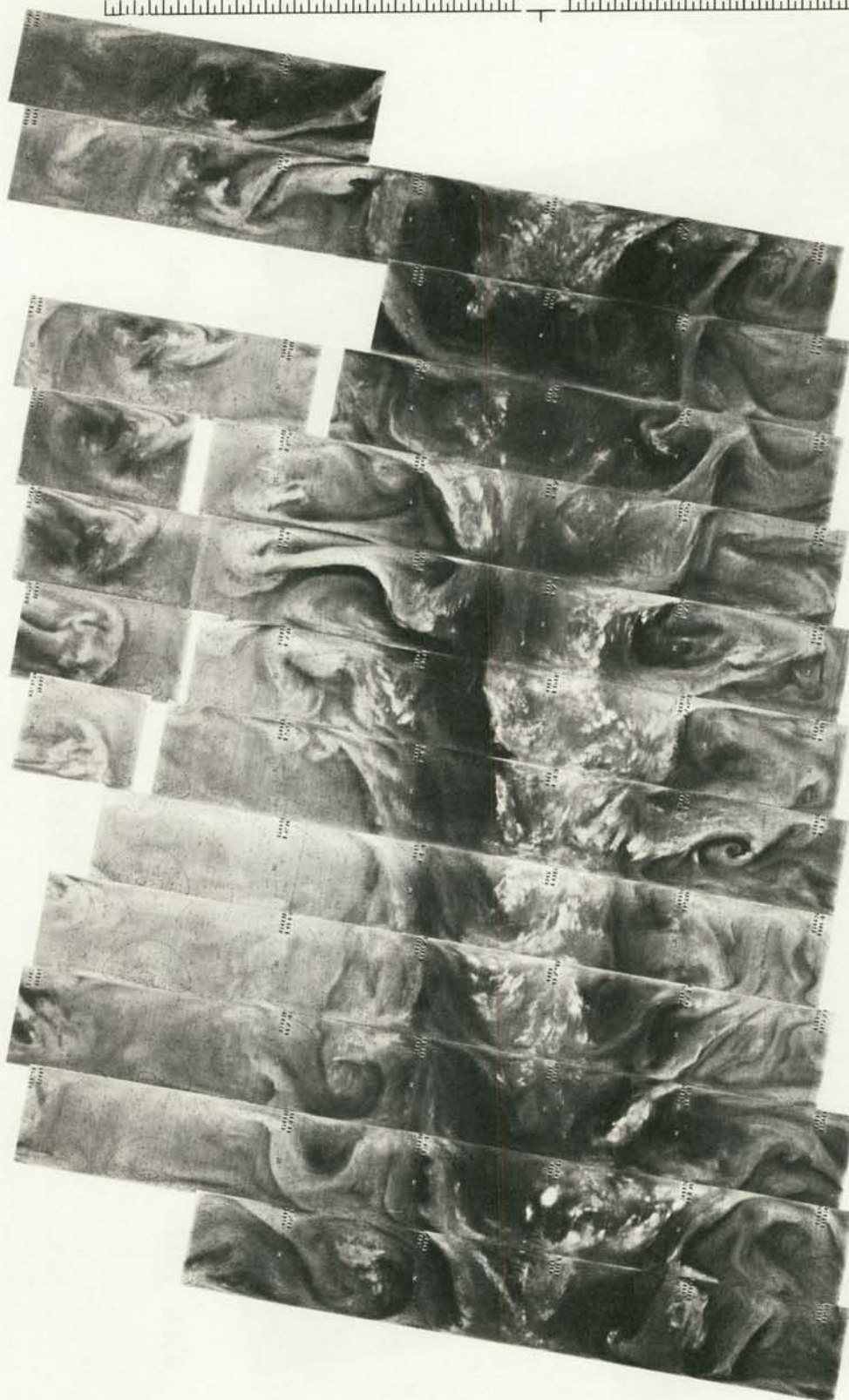
4-109







30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



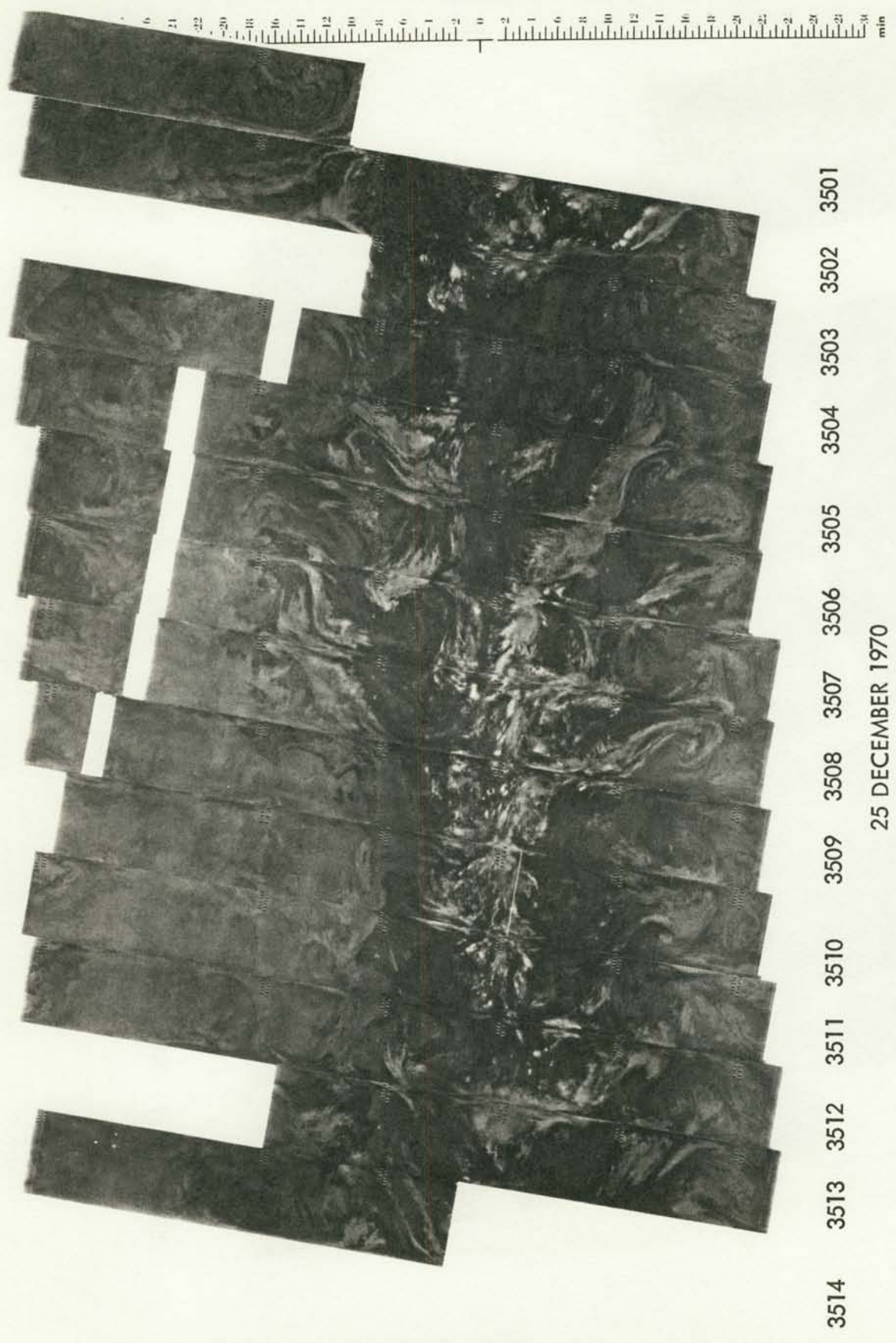
3500 3499 3498 3497 3496 3495 3494 3493 3492 3491 3490 3489 3488

24 DECEMBER 1970

6.7  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

3514 3513 3512 3511 3510 3509 3508 3507 3506 3505 3504 3503 3502 3501

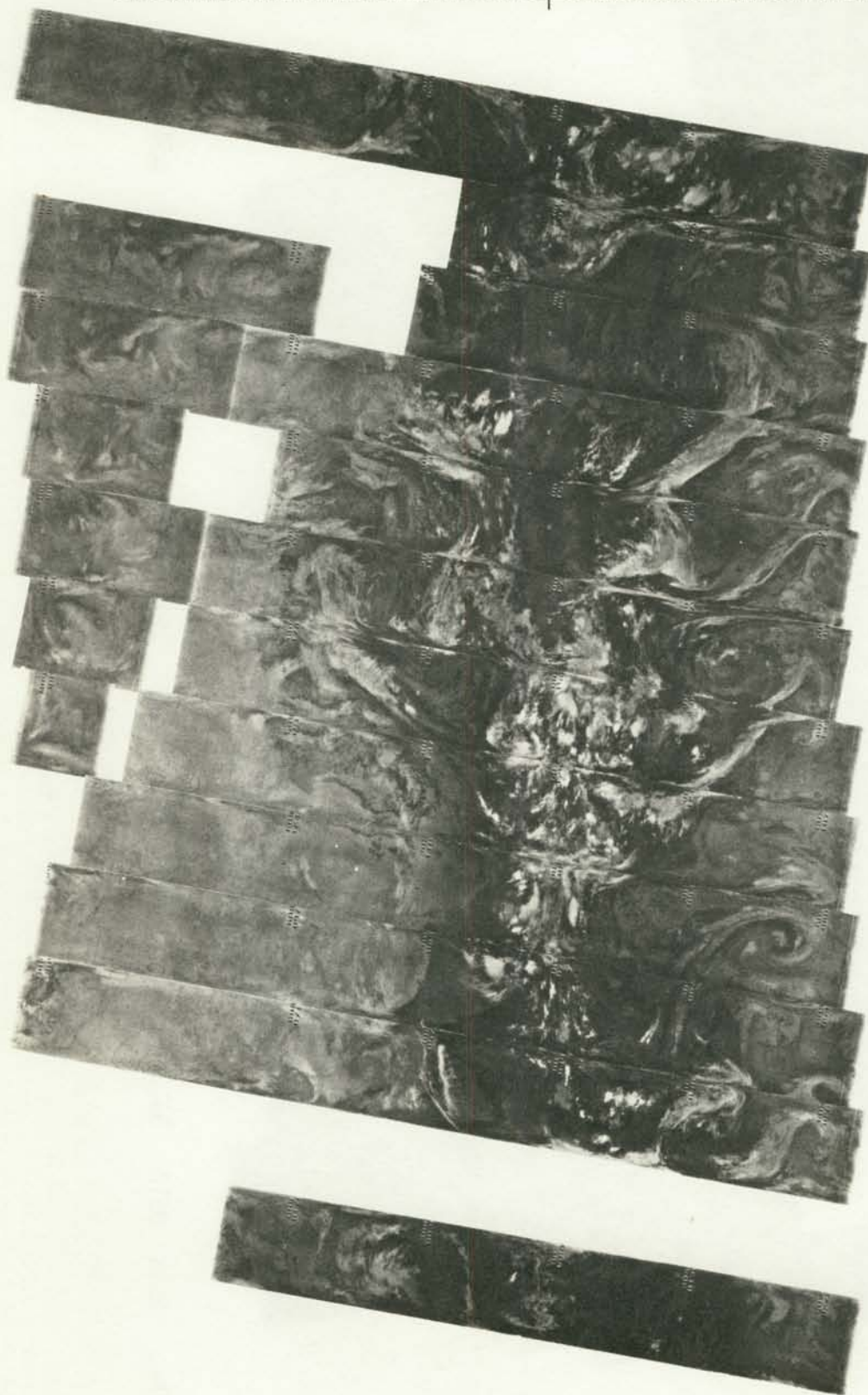
25 DECEMBER 1970

11.5  $\mu$ m





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3527 3526 3525 3524 3523 3522 3521 3520 3519 3518 3517 3516 3515

26 DECEMBER 1970

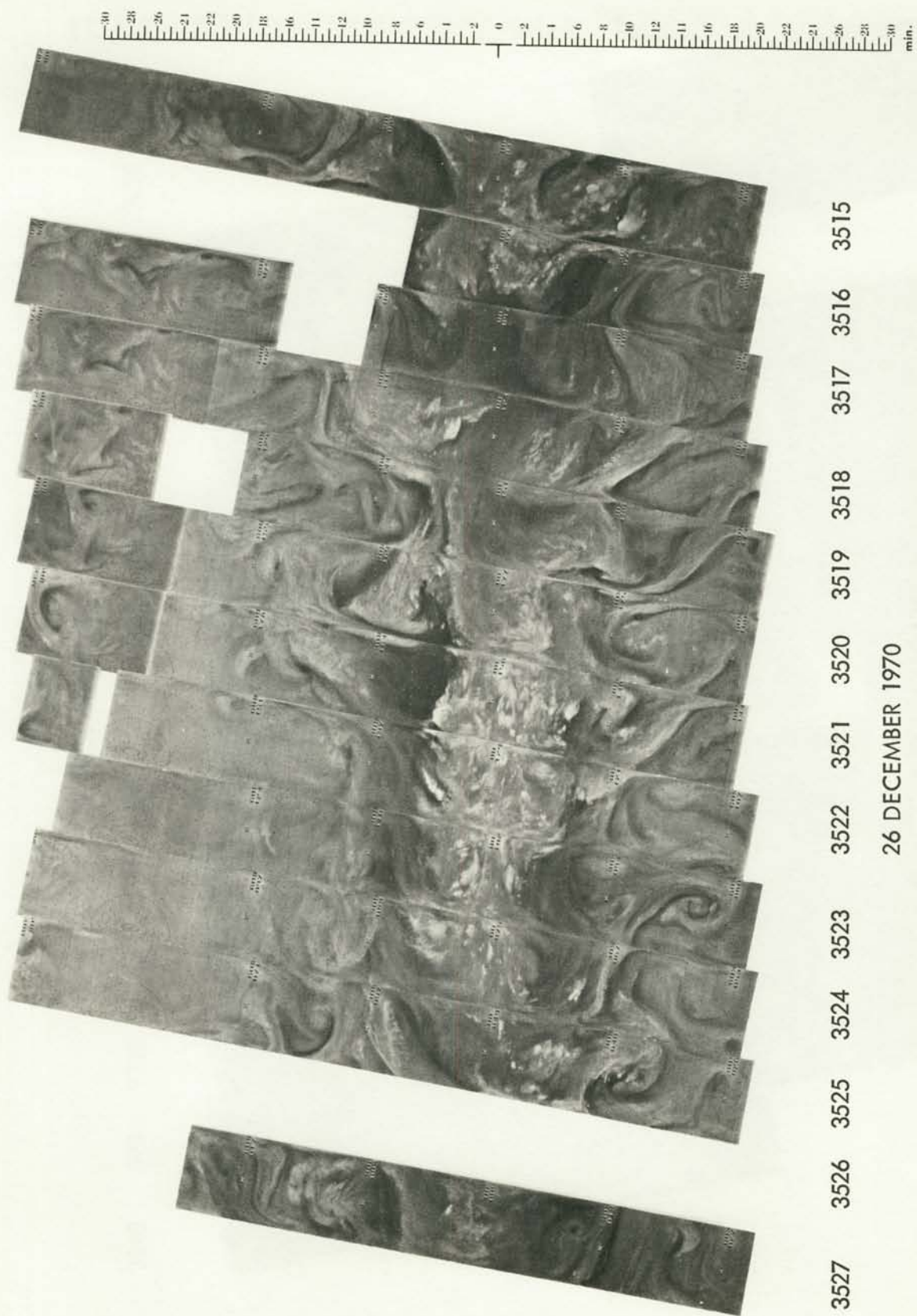
11.5  $\mu\text{m}$

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-115







30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-117





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-118



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-119



28 DECEMBER 1970

6.7  $\mu$ m





29 DECEMBER 1970

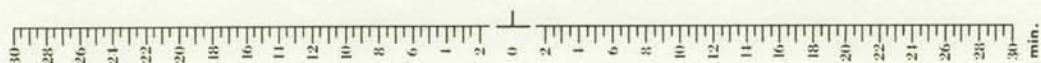
11.5  $\mu$ m





29 DECEMBER 1970

6.7  $\mu\text{m}$

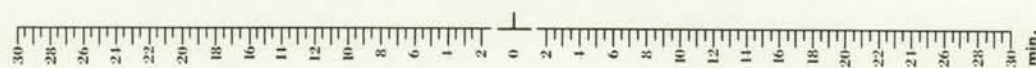




3581 3580 3579 3578 3577 3576 3575 3574 3573 3572 3571 3570 3569 3568

30 DECEMBER 1970

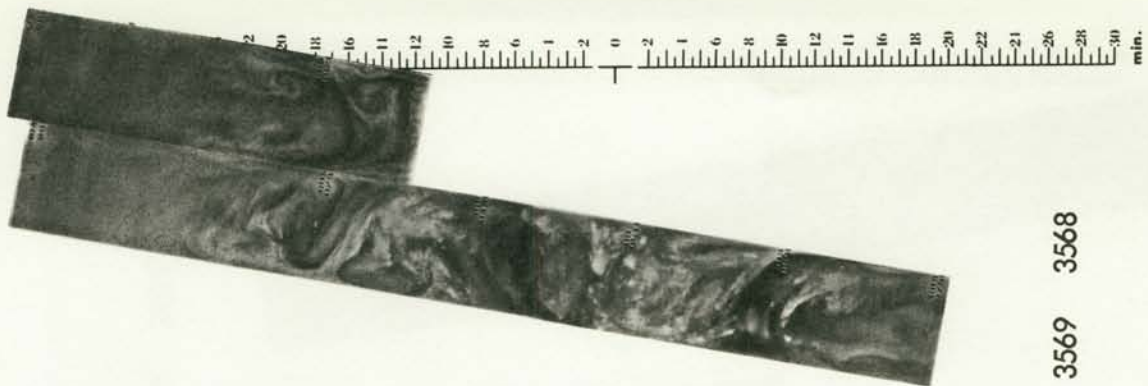
11.5  $\mu$ m





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-123

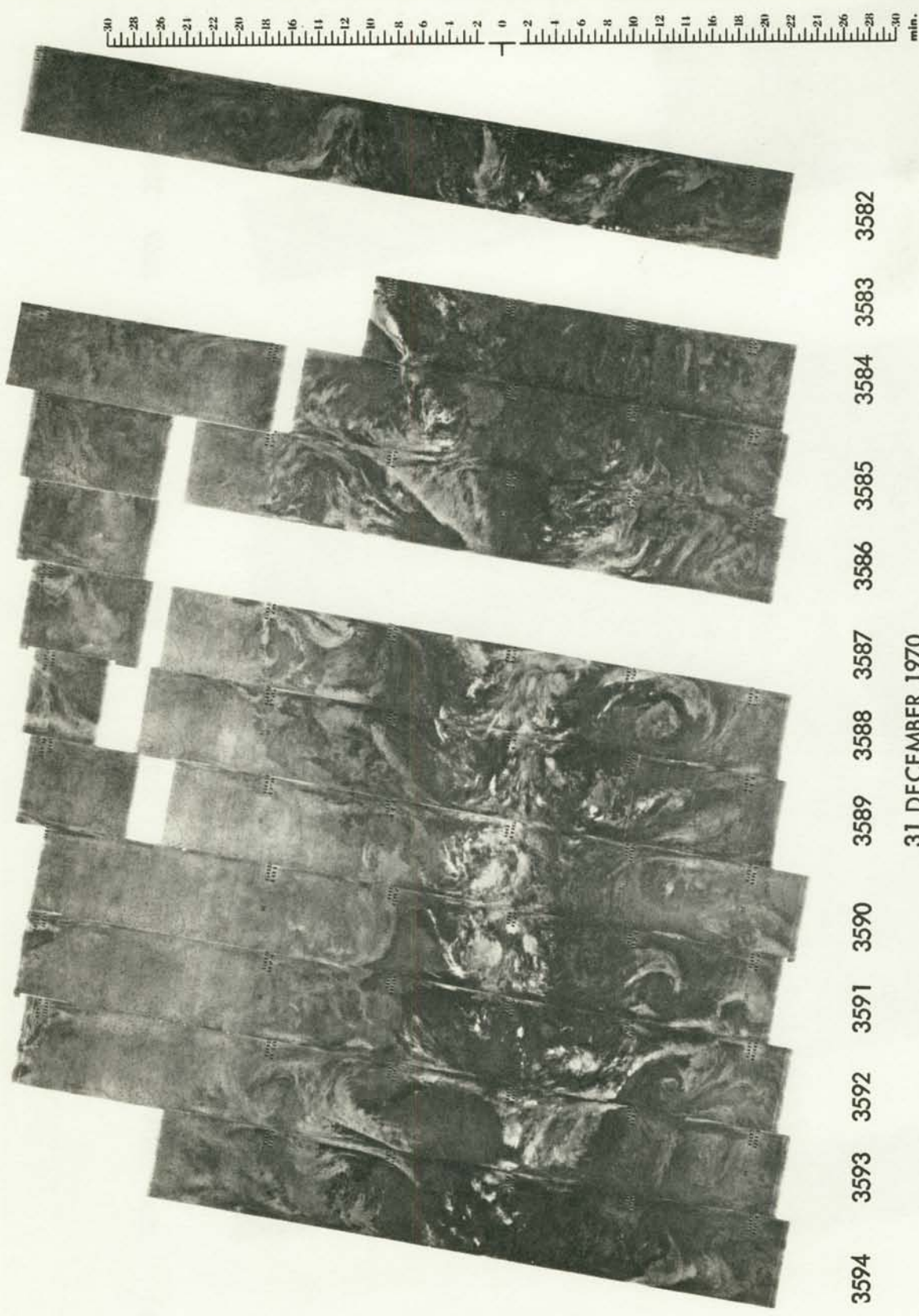


3581 3580 3579 3578 3577 3576 3575 3574 3573 3572 3571 3570 3569 3568

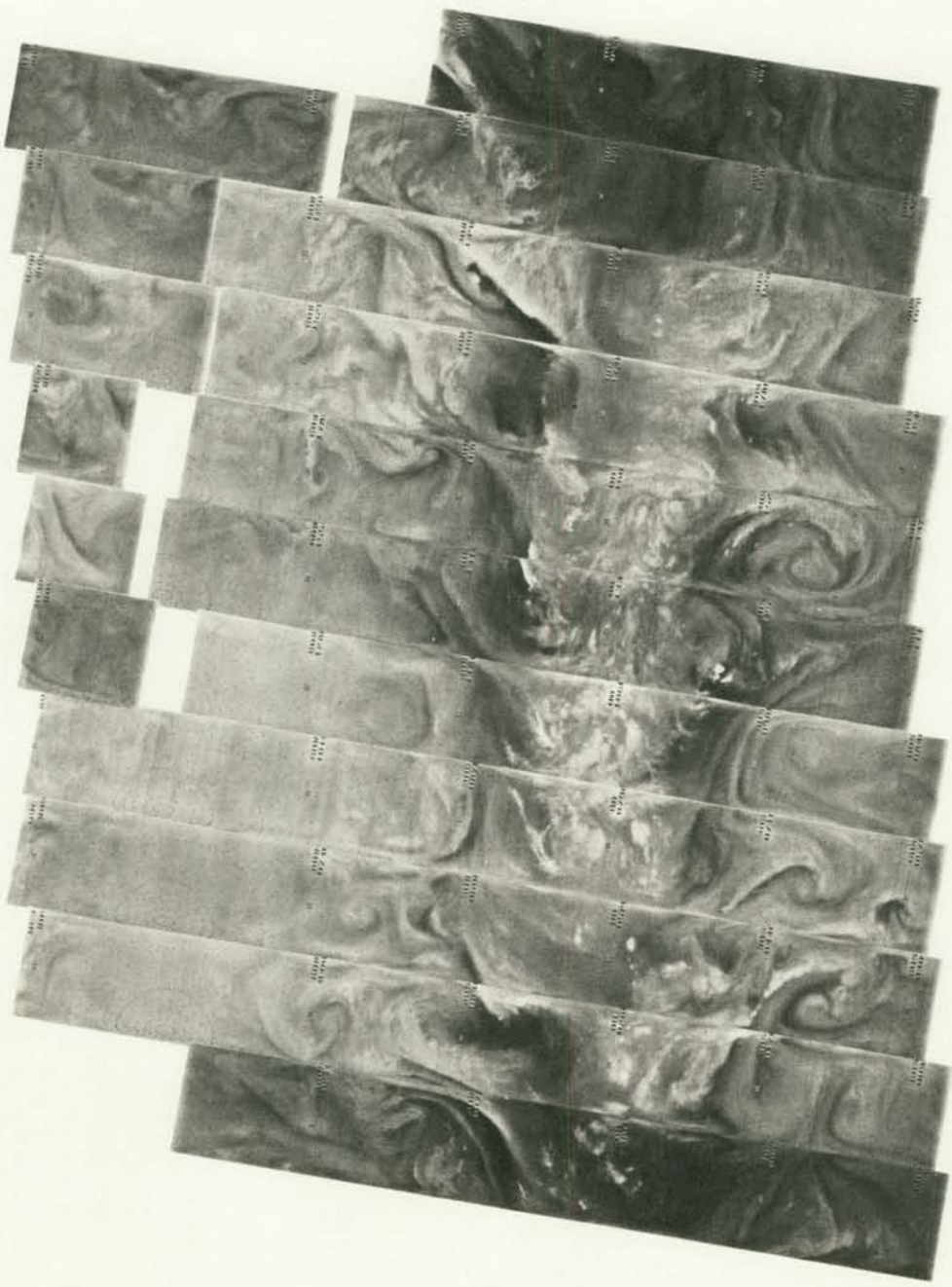
30 DECEMBER 1970

6.7  $\mu$ m





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3594 3593 3592 3591 3590 3589 3588 3587 3586 3585 3584 3583 3582

31 DECEMBER 1970

6.7  $\mu$ m

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SECTION 4.2  
TEMPERATURE HUMIDITY INFRARED RADIOMETER  
DAYTIME MONTAGES

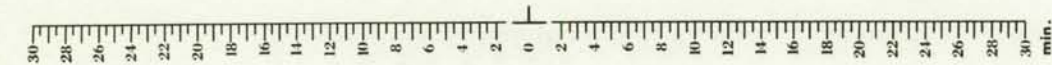
(No  $6.7\mu\text{m}$  montages are shown as this channel was on only for the brief periods shown in Table 4-2.)



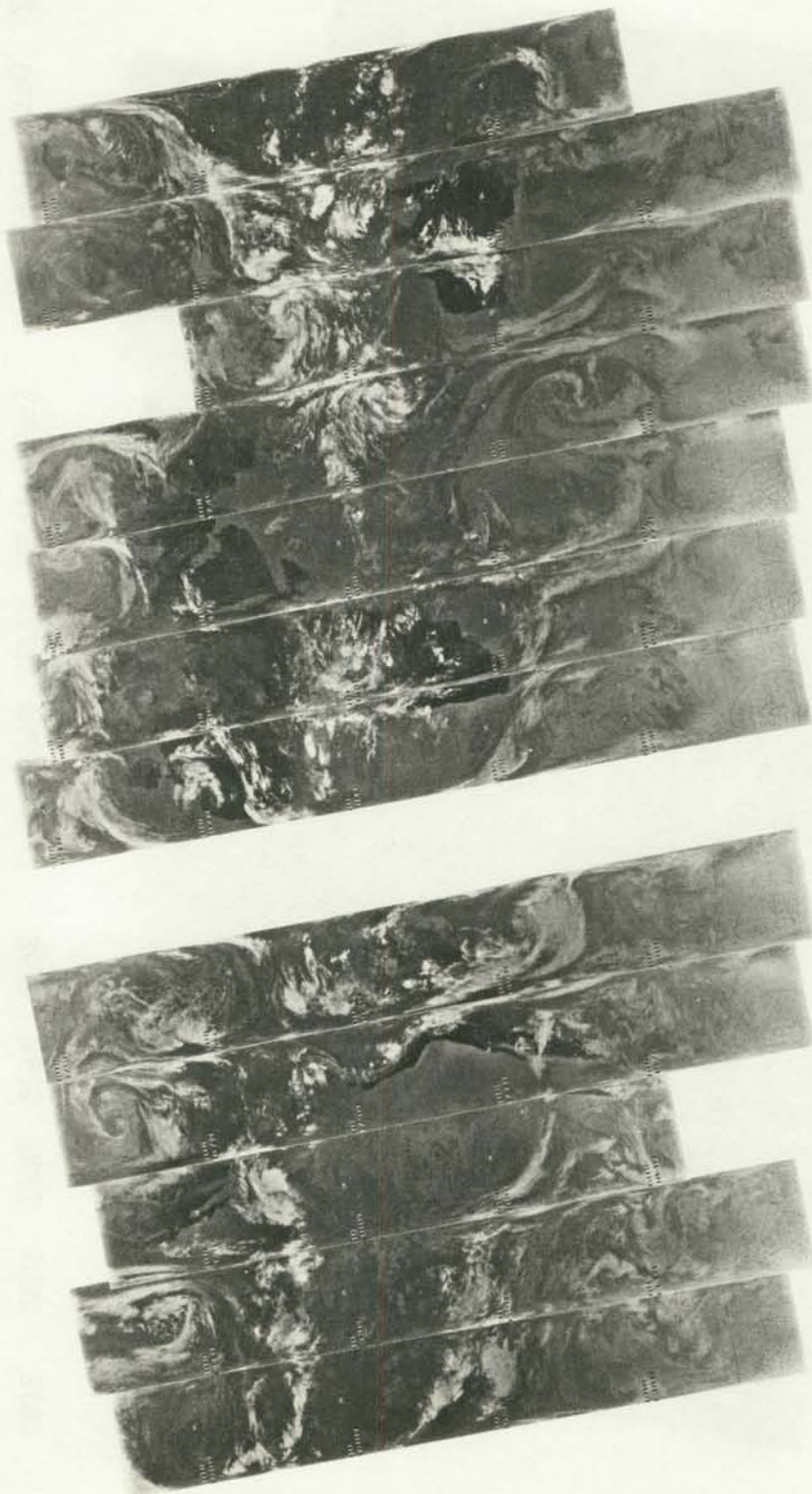
Table 4-2

Daytime Data Orbits With  $6.7\mu\text{m}$  THIR Humidity Data  
(See Table 2-2 for on-off times)

DATE	DATA ORBIT	TOTAL TIME ON
13 November	2947	6 Minutes
15 November	2974	6 Minutes
16 November	2988	5 Minutes
17 November	3001	5 Minutes
18 November	3014	5 Minutes
19 November	3028	5 Minutes
20 November	3041	5 Minutes
21 November	3055	5 Minutes
27 November	3135	5 Minutes
29 November	3162	5 Minutes
12 December	3335	48 Minutes
12 December	3336	47 Minutes



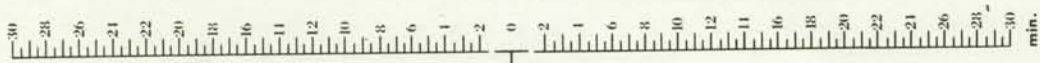
4-129

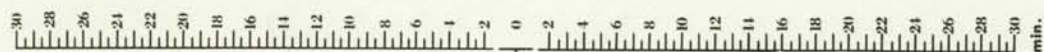


2788 2787 2786 2785 2784 2783 2782 2781 2780 2779 2778 2777 2776

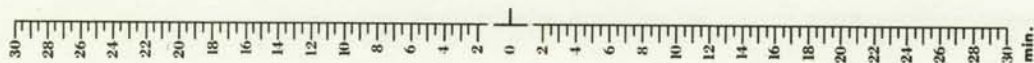
1 NOVEMBER 1970

11.5  $\mu\text{m}$



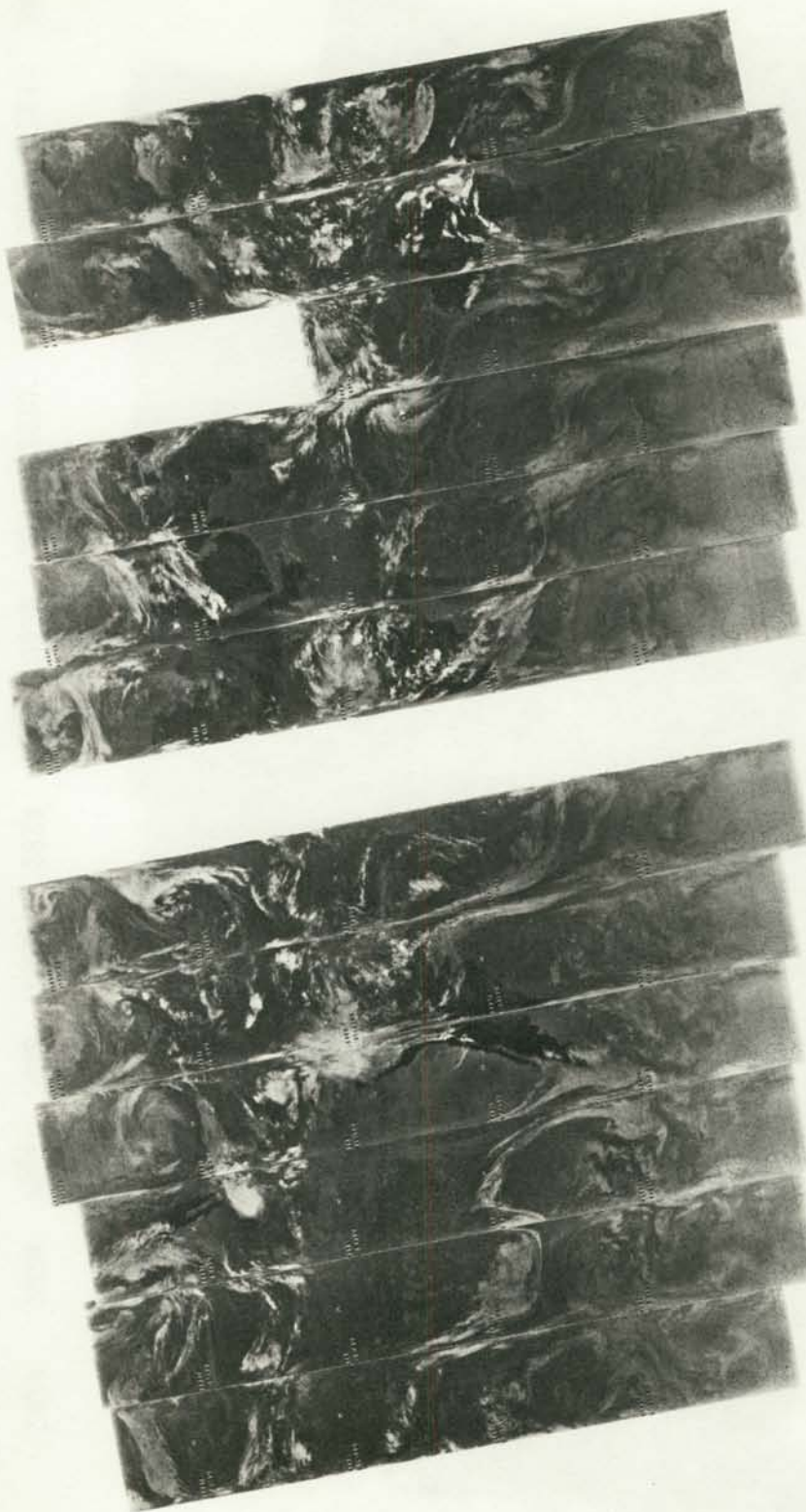


2 NOVEMBER 1970

11.5  $\mu\text{m}$ 



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



2803 2804 2805 2806 2807 2808 2809 2810 2811 2812 2813 2814 2815

3 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



2829 2828 2827 2826 2825 2824 2823 2822 2821 2820 2819 2818 2817 2816

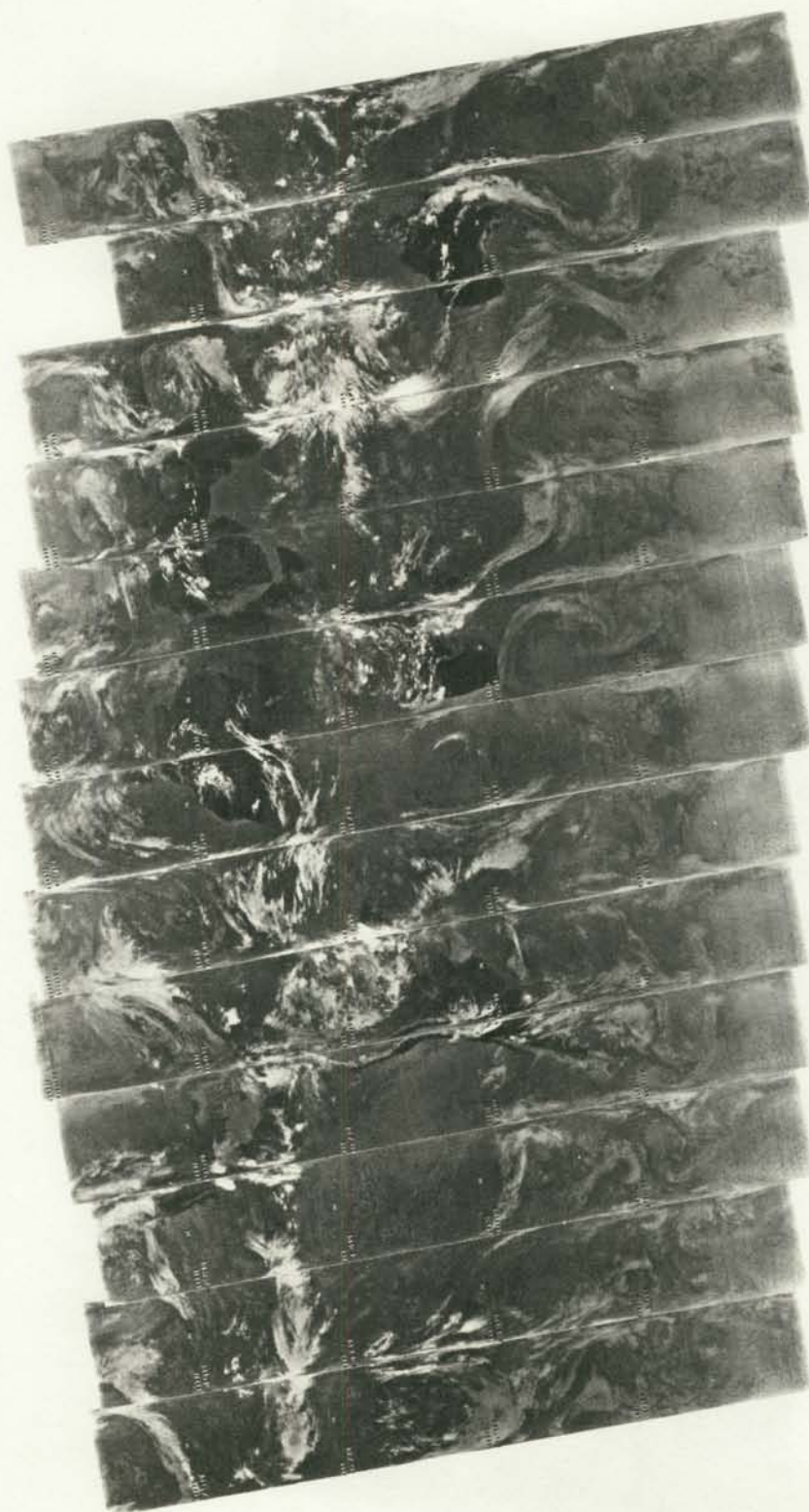
4 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



2842 2841 2840 2839 2838 2837 2836 2835 2834 2833 2832 2831 2830

5 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



2856 2855 2854 2853 2852 2851 2850 2849 2848 2847 2846 2845 2844 2843

6 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-135



2869 2868 2867 2866 2865 2864 2863 2862 2861 2860 2859 2858 2857

7 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-136



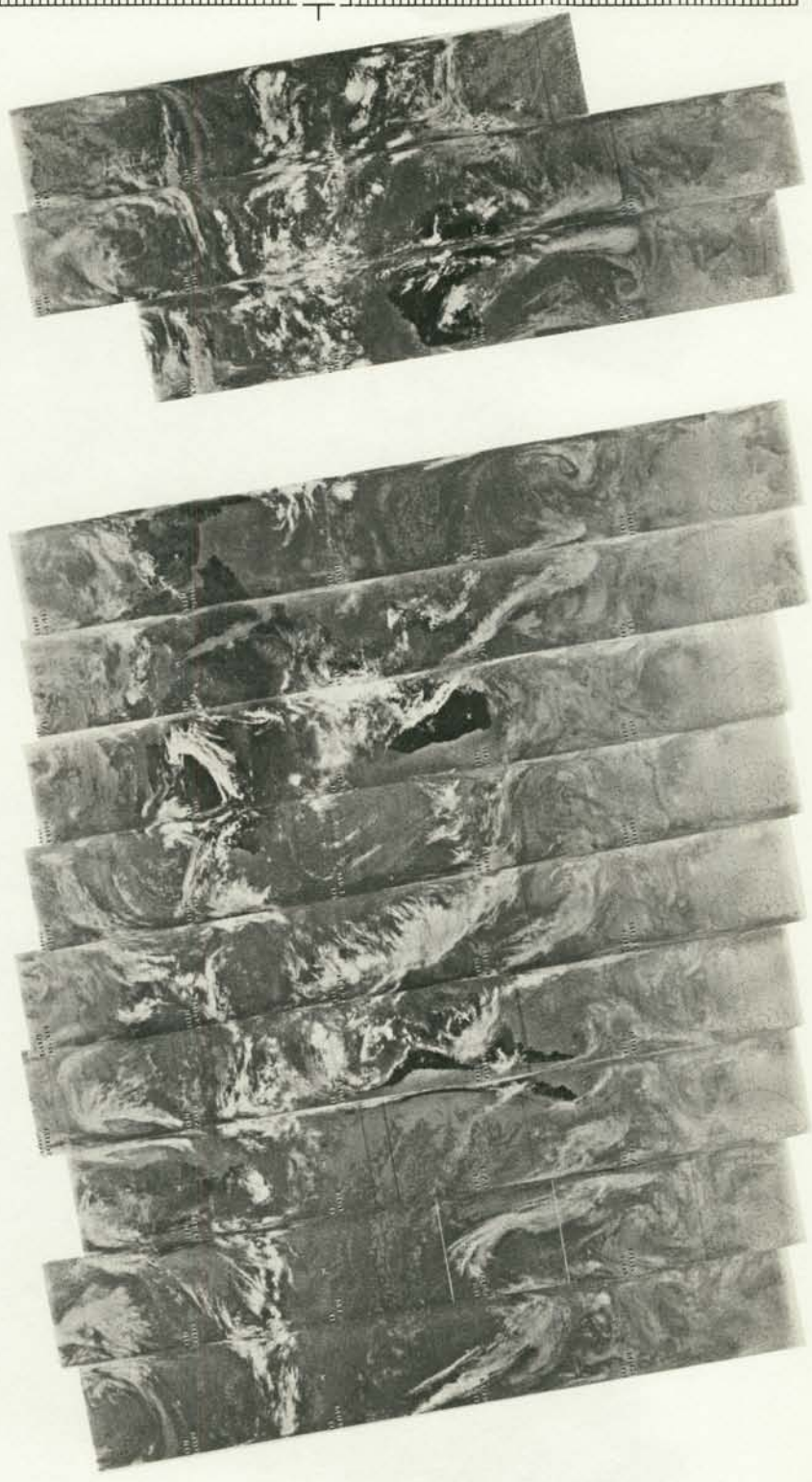
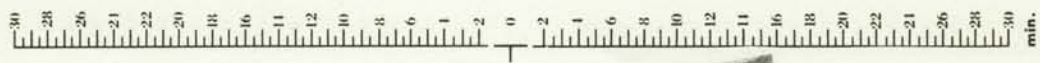
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

2882 2881 2880 2879 2878 2877 2876 2875 2874 2873 2872 2871 2870

8 NOVEMBER 1970

11.5  $\mu$ m

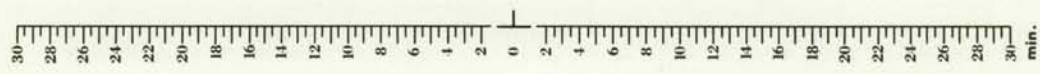


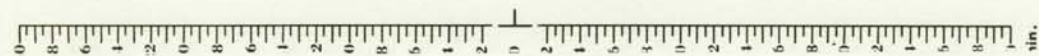


2896 2895 2894 2893 2892 2891 2890 2889 2888 2887 2886 2885 2884 2883

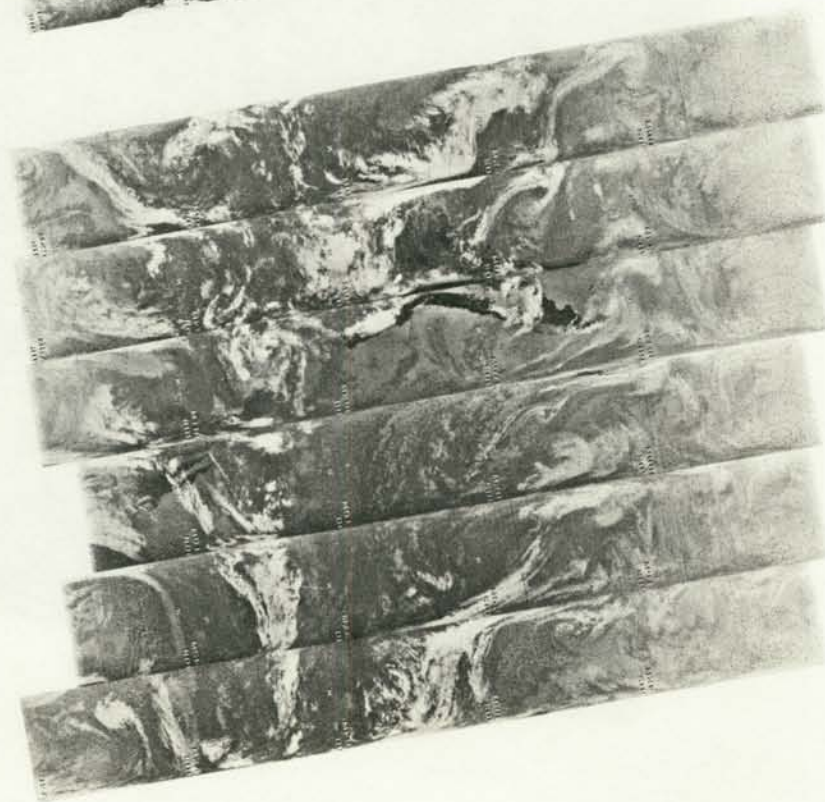
9 NOVEMBER 1970

11.5  $\mu$ m





4-138



2909

2908

2907

2906

2905

2904

2903

2902

2901

2900

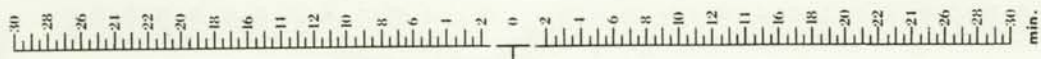
2899

2898

2897

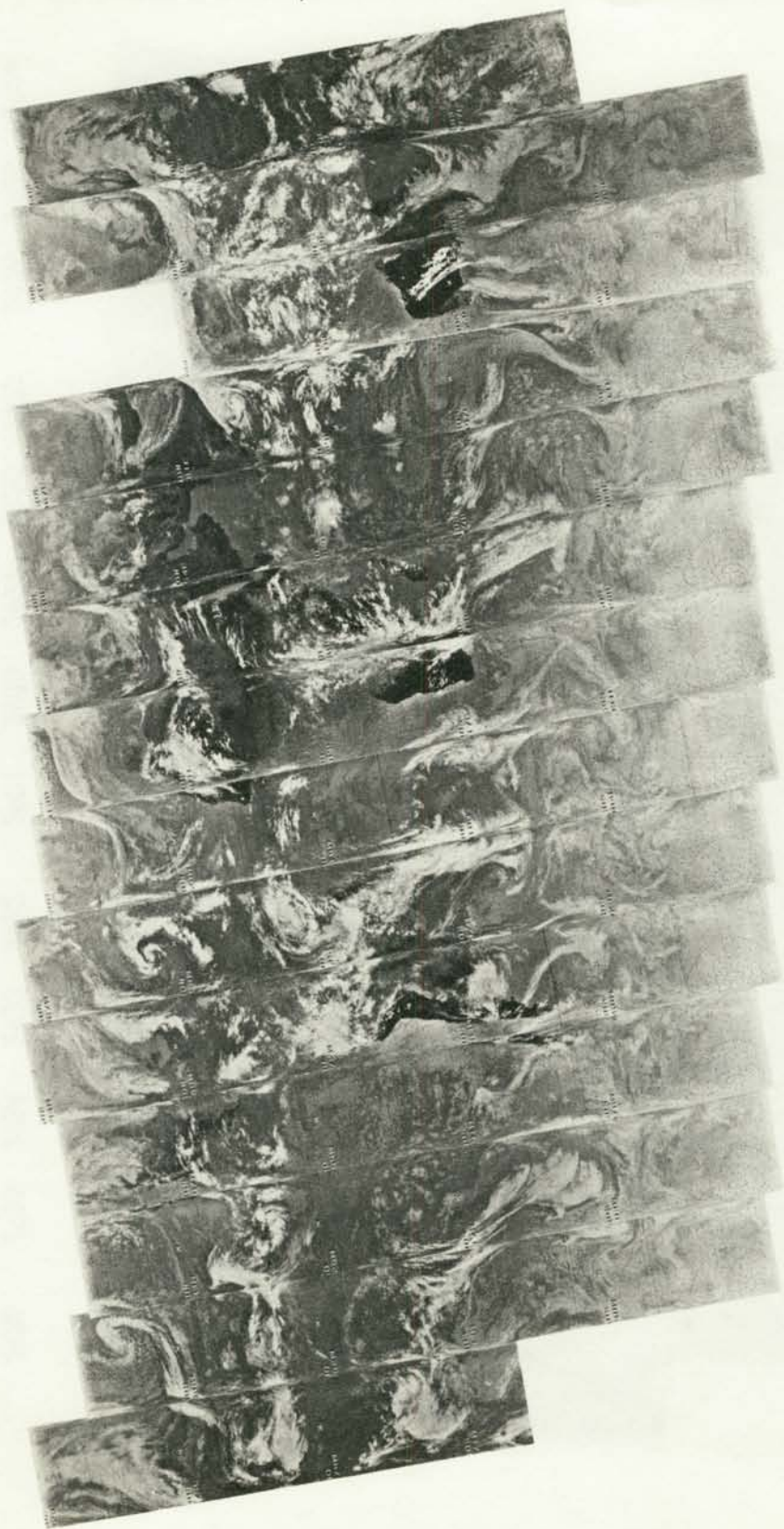
10 NOVEMBER 1970

11.5  $\mu$ m





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



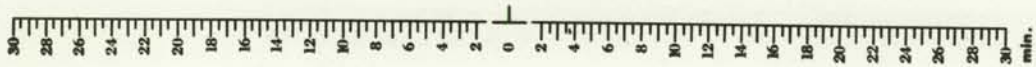
2923 2922 2921 2920 2919 2918 2917 2916 2915 2914 2913 2912 2911 2910

11 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.





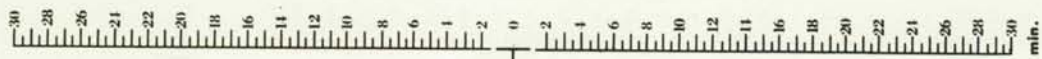
4-140



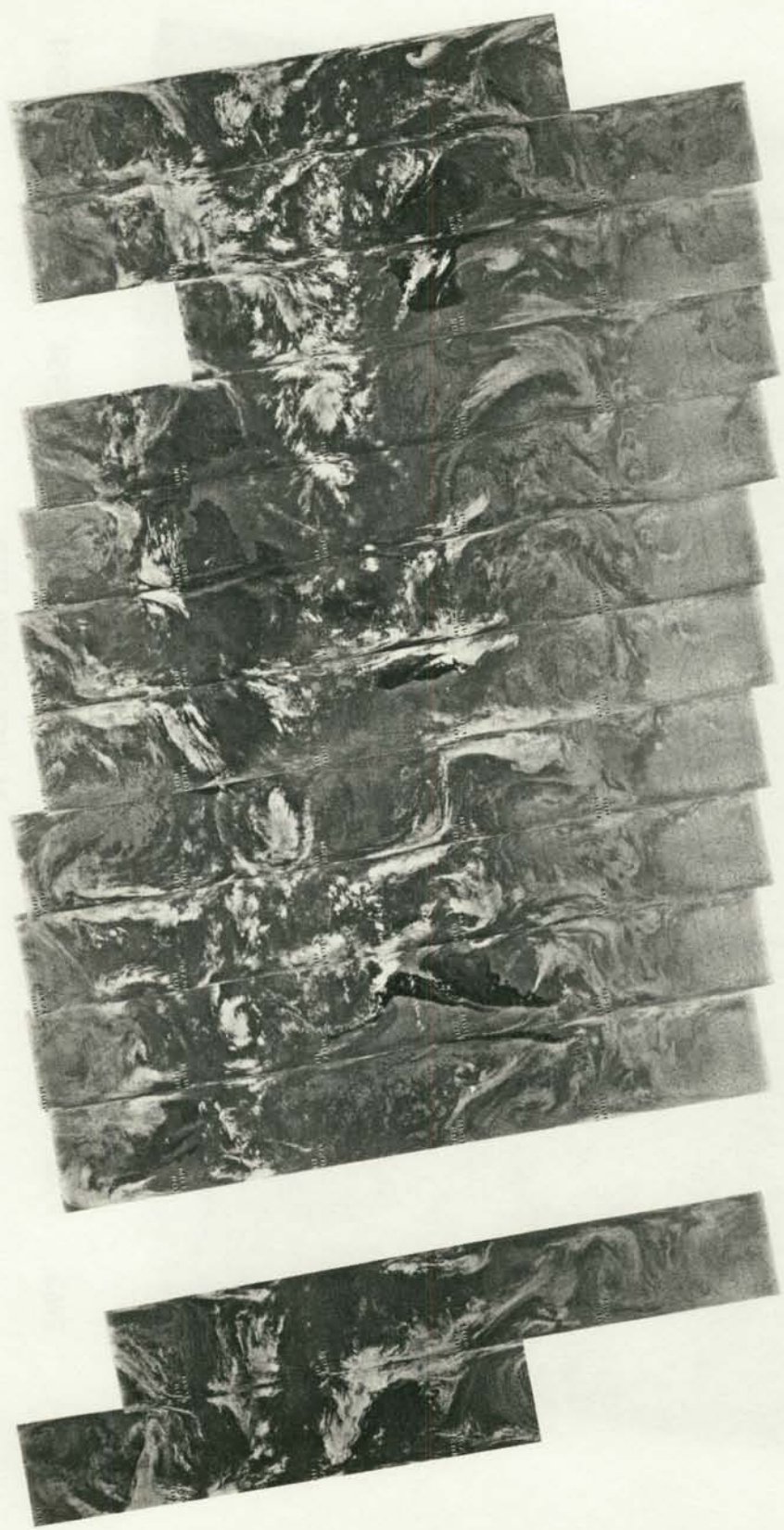
2936 2935 2934 2933 2932 2931 2930 2929 2928 2927 2926 2925 2924

12 NOVEMBER 1970

11.5  $\mu\text{m}$



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



2937 2938 2939 2940 2941 2942 2943 2944 2945 2946 2947 2948 2949 2950

13 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



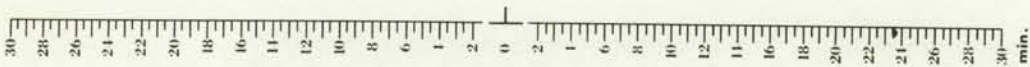
2963 2962 2961 2960 2959 2958 2957 2956 2955 2954 2953 2952 2951

14 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.





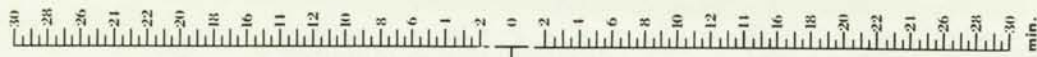
4-143



2976 2975 2974 2973 2972 2971 2970 2969 2968 2967 2966 2965 2964

15 NOVEMBER 1970

11.5  $\mu$ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



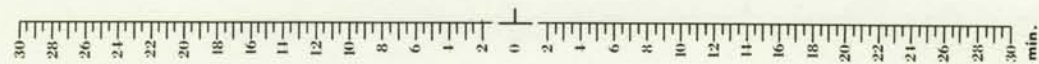
2990 2989 2988 2987 2986 2985 2984 2983 2982 2981 2980 2979 2978 2977

16 NOVEMBER 1970

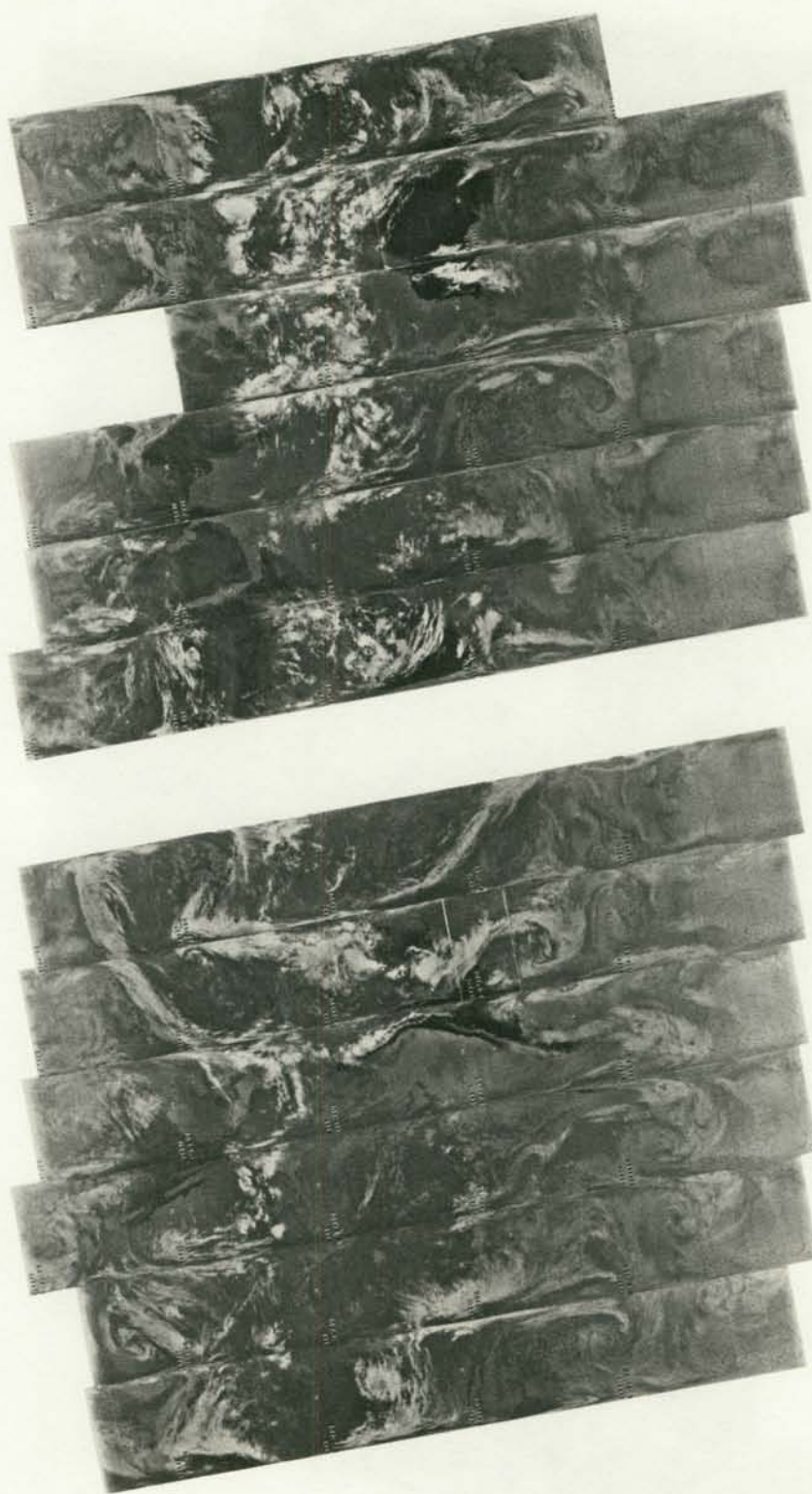
11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.





4-145



17 NOVEMBER 1970

11.5  $\mu$ m





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



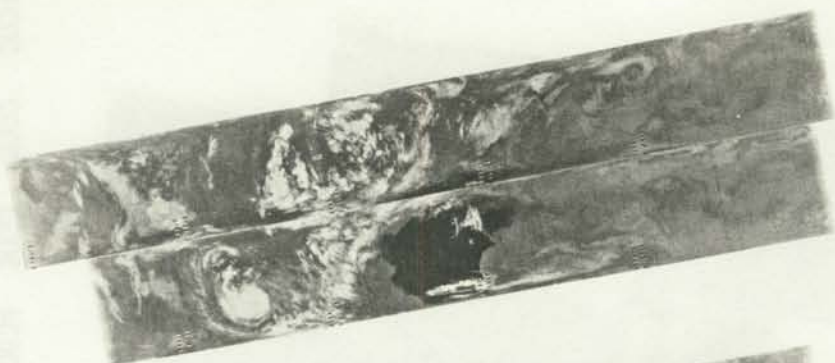
3017 3016 3015 3014 3013 3012 3011 3010 3009 3008 3007 3006 3005 3004

18 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3030 3029 3028 3027 3026 3025 3024 3023 3022 3021 3020 3019 3018

19 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



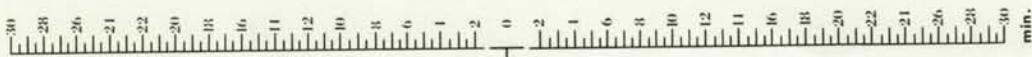
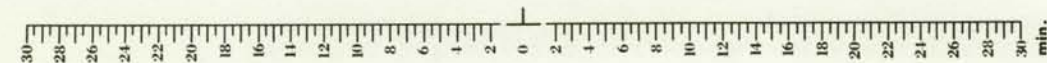
3044 3043 3042 3041 3040 3039 3038 3037 3036 3035 3034 3033 3032 3031

20 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.





3057 3056 3055 3054 3053 3052 3051 3050 3049 3048 3047 3046 3045

21 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3070 3069 3068 3067 3066 3065 3064 3063 3062 3061 3060 3059 3058

22 NOVEMBER 1970

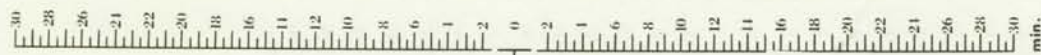
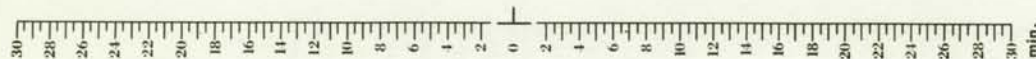
11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



6-6

4-151



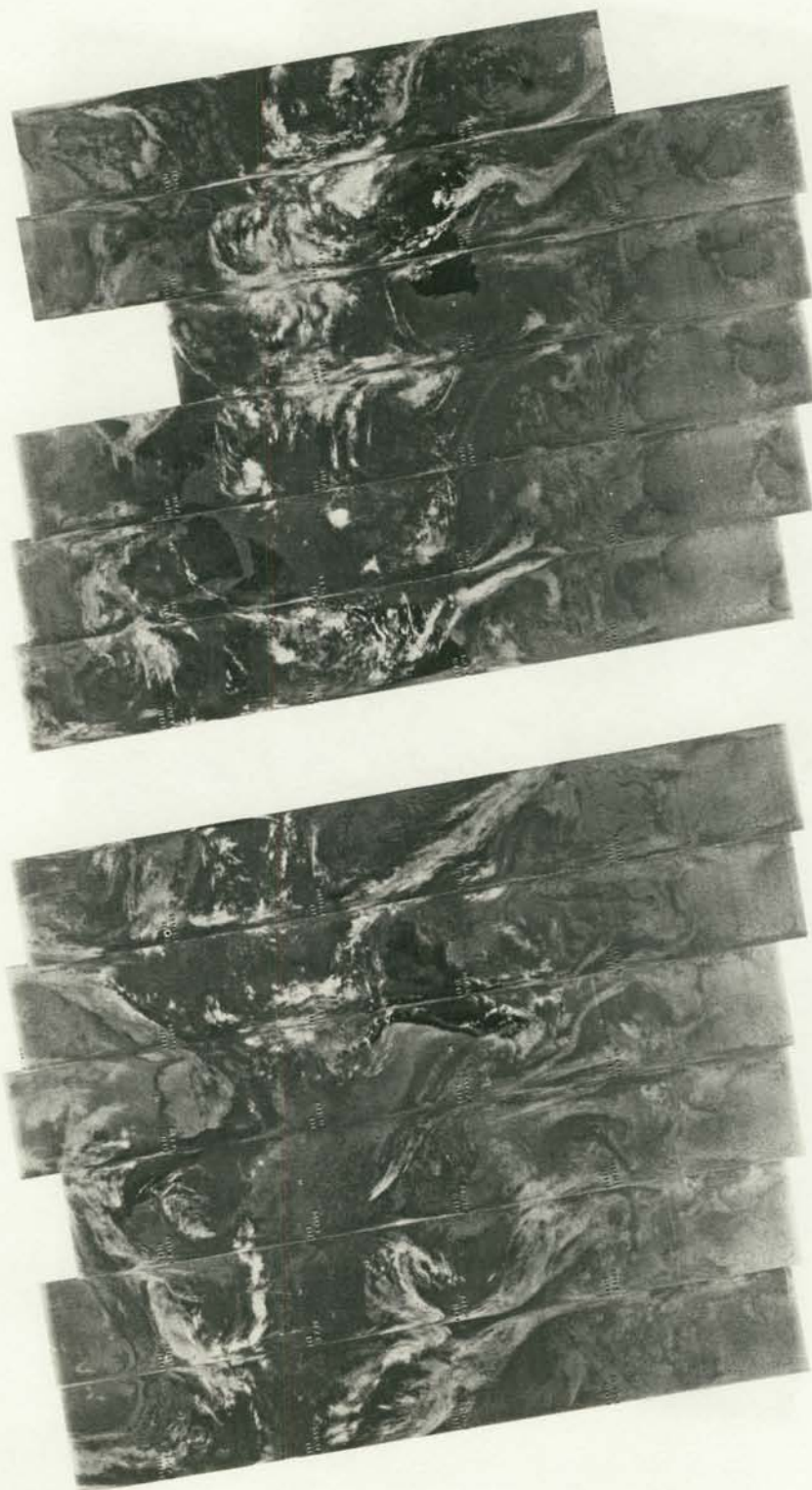
3084 3083 3082 3081 3080 3079 3078 3077 3076 3075 3074 3073 3072 3071

23 NOVEMBER 1970

11.5  $\mu$ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3085 3086 3087 3088 3089 3090 3091 3092 3093 3094 3095 3096 3097

24 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-153



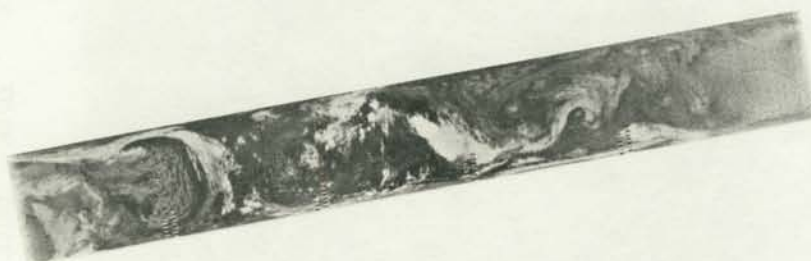
3111 3110 3109 3108 3107 3106 3105 3104 3103 3102 3101 3100 3099 3098

25 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3124 3123 3122 3121 3120 3119 3118 3117 3116 3115 3114 3113 3112

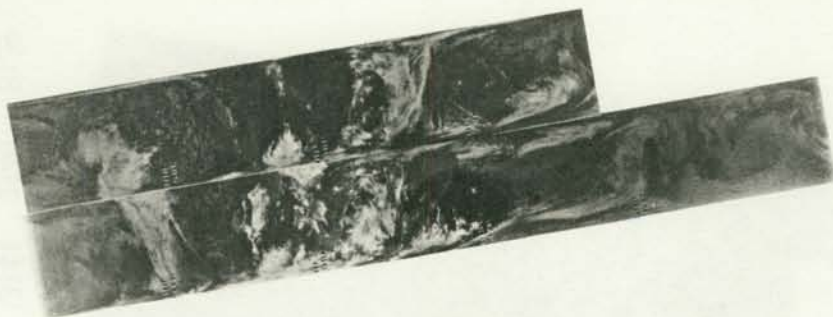
26 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3138 3137 3136 3135 3134 3133 3132 3131 3130 3129 3128 3127 3126 3125

27 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



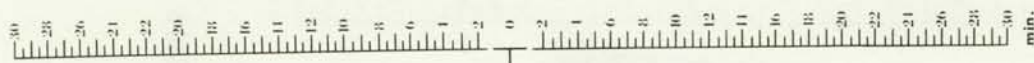
3151 3150 3149 3148 3147 3146 3145 3144 3143 3142 3141 3140 3139

28 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

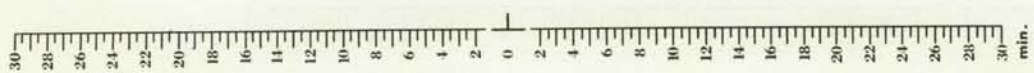




3164 3163 3162 3161 3160 3159 3158 3157 3156 3155 3154 3153 3152

29 NOVEMBER 1970

11.5  $\mu$ m





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-158



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

3178 3177 3176 3175 3174 3173 3172 3171 3170 3169 3168 3167 3166 3165

30 NOVEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



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3191 3190 3189 3188 3187 3186 3185 3184 3183 3182 3181 3180 3179

1 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3205 3204 3203 3202 3201 3200 3199 3198 3197 3196 3195 3194 3193 3192

2 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30  
mm.



3218 3217 3216 3215 3214 3213 3212 3211 3210 3209 3208 3207 3206

3 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30  
mm.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3232 3231 3230 3229 3228 3227 3226 3225 3224 3223 3222 3221 3220 3219

4 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3245 3244 3243 3242 3241 3240 3239 3238 3237 3236 3235 3234 3233

5 DECEMBER 1970

11.5  $\mu$ m

Reproduced from  
best available copy.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3258 3257 3256 3255 3254 3253 3252 3251 3250 3249 3248 3247 3246

6 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3272 3271 3270 3269 3268 3267 3266 3265 3264 3263 3262 3261 3260 3259

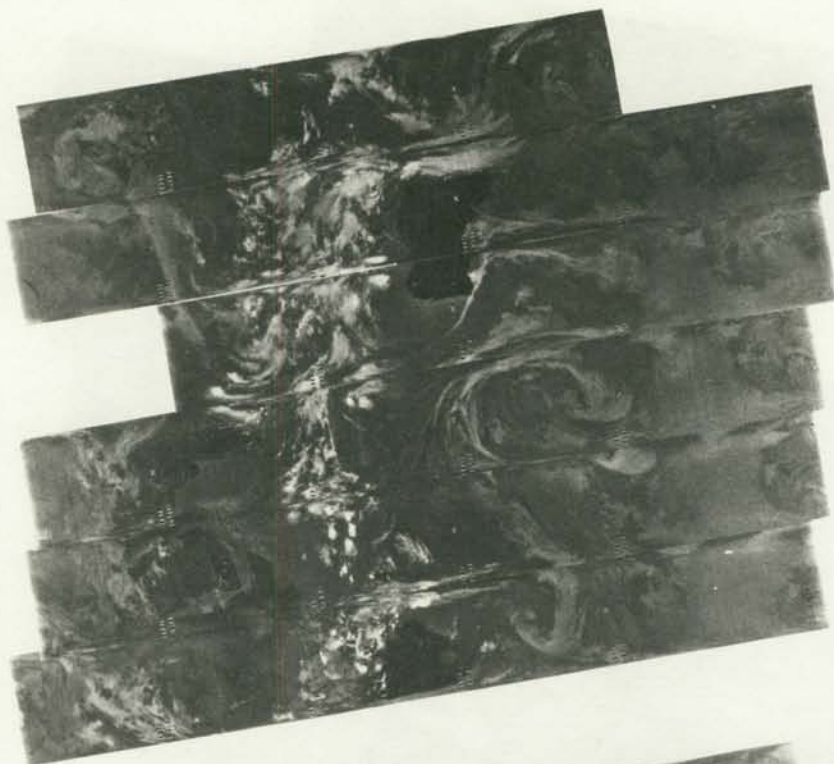
7 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



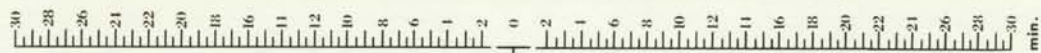
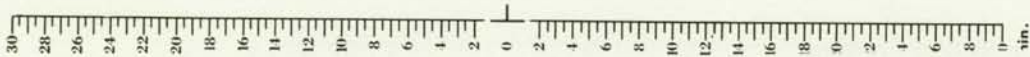
3285 3284 3283 3282 3281 3280 3279 3278 3277 3276 3275 3274 3273

8 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.





3299 3298 3297 3296 3295 3294 3293 3292 3291 3290 3289 3288 3287 3286

9 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3312 3311 3310 3309 3308 3307 3306 3305 3304 3303 3302 3301 3300

10 DECEMBER 1970

11.5  $\mu\text{m}$

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 in.



Reproduced from  
best available copy.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

3326 3325 3324 3323 3322 3321 3320 3319 3318 3317 3316 3315 3314 3313

11 DECEMBER 1970

11.5  $\mu$ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

4-170

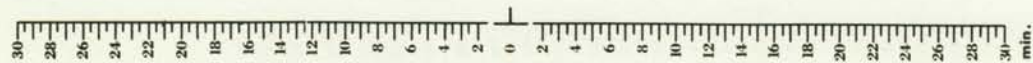


3339 3338 3337 3336 3335 3334 3333 3332 3331 3330 3329 3328 3327

12 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



4-171



3352

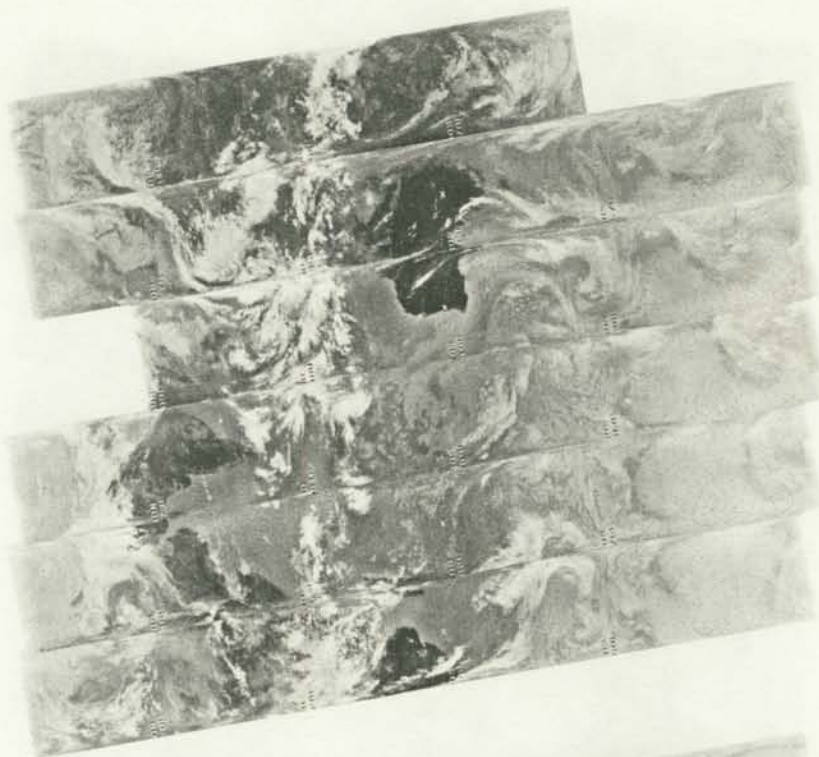
3351

3350

3349

3348

3347



3346

3345

3344

3343

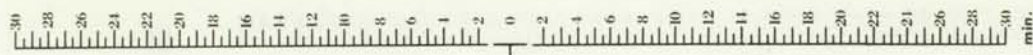
3342

3341

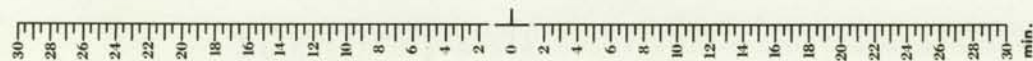
3340

13 DECEMBER 1970

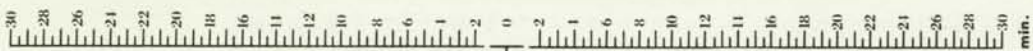
11.5  $\mu$ m







4-172



3366 3365 3364 3363 3362 3361 3360 3359 3358 3357 3356 3355 3354 3353

14 DECEMBER 1970

11.5  $\mu$ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3379 3378 3377 3376 3375 3374 3373 3372 3371 3370 3369 3368 3367

15 DECEMBER 1970

11.5  $\mu$ m

Reproduced from  
best available copy.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3393 3392 3391 3390 3389 3388 3387 3386 3385 3384 3383 3382 3381 3380

16 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



17 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 in.



3420 3419 3418 3417 3416 3415 3414 3413 3412 3411 3410 3409 3408 3407

18 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3433 3432 3431 3430 3429 3428 3427 3426 3425 3424 3423 3422 3421

19 DECEMBER 1970

11.5  $\mu$ m

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best available copy.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



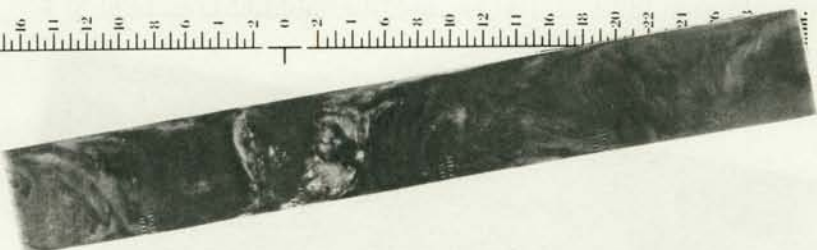
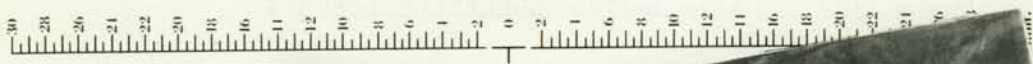
3434 3435 3436 3437 3438 3439 3440 3441 3442 3443 3444 3445 3446

20 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

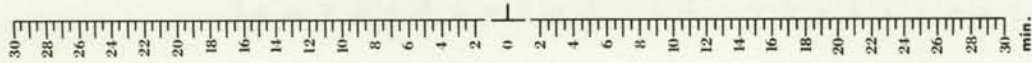




3460 3459 3458 3457 3456 3455 3454 3453 3452 3451 3450 3449 3448 3447

21 DECEMBER 1970

11.5  $\mu$ m



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3473 3472 3471 3470 3469 3468 3467 3466 3465 3464 3463 3462 3461

22 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3487 3486 3485 3484 3483 3482 3481 3480 3479 3478 3477 3476 3475 3474

23 DECEMBER 1970

11.5  $\mu$ m

Reproduced from  
best available copy.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3488 3489 3490 3491 3492 3493 3494 3495 3496 3497 3498 3499 3500

24 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



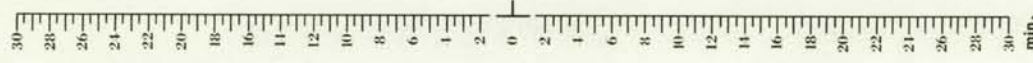
3514 3513 3512 3511 3510 3509 3508 3507 3506 3505 3504 3503 3502 3501

25 DECEMBER 1970

11.5  $\mu$ m

0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

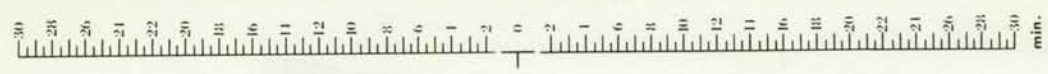




3527 3526 3525 3524 3523 3522 3521 3520 3519 3518 3517 3516 3515

26 DECEMBER 1970

11.5  $\mu$ m





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3540 3539 3538 3537 3536 3535 3534 3533 3532 3531 3530 3529 3528

27 DECEMBER 1970

11.5  $\mu$ m

Reproduced from  
best available copy.



30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



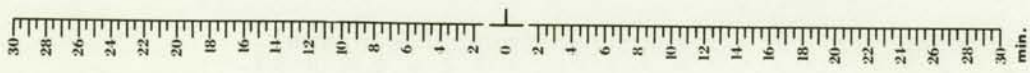
30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30

3554 3553 3552 3551 3550 3549 3548 3547 3546 3545 3544 3543 3542 3541

28 DECEMBER 1970

11.5  $\mu$ m

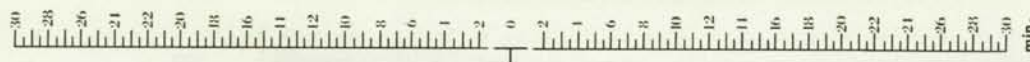




3567 3566 3565 3564 3563 3562 3561 3560 3559 3558 3557 3556 3555

29 DECEMBER 1970

11.5  $\mu$ m





30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.



3581 3580 3579 3578 3577 3576 3575 3574 3573 3572

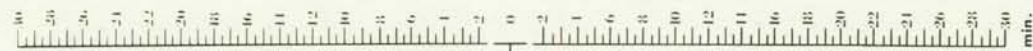
3571 3570 3569 3568

30 DECEMBER 1970

11.5  $\mu$ m

30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30 min.





3582



3583



3584



3585



3586



3587



3588



3589



3590



3591



3592



3593

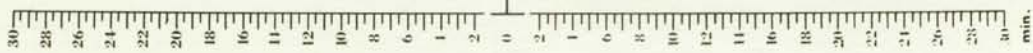


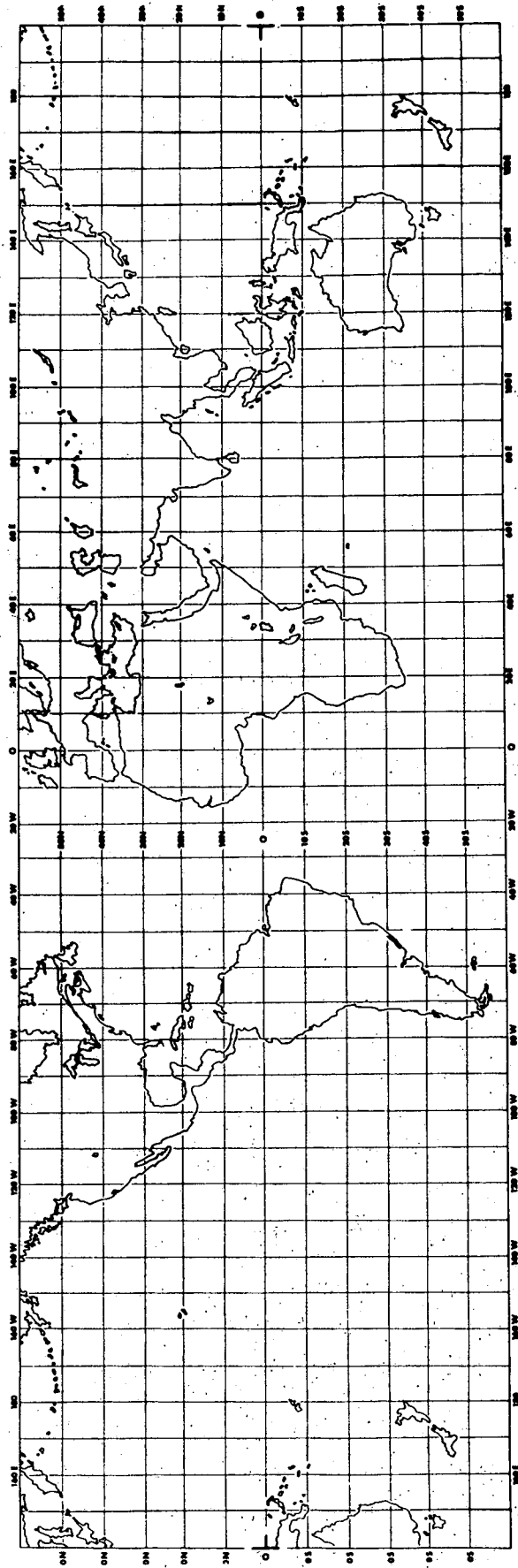
3594

31 DECEMBER 1970

11.5  $\mu$ m

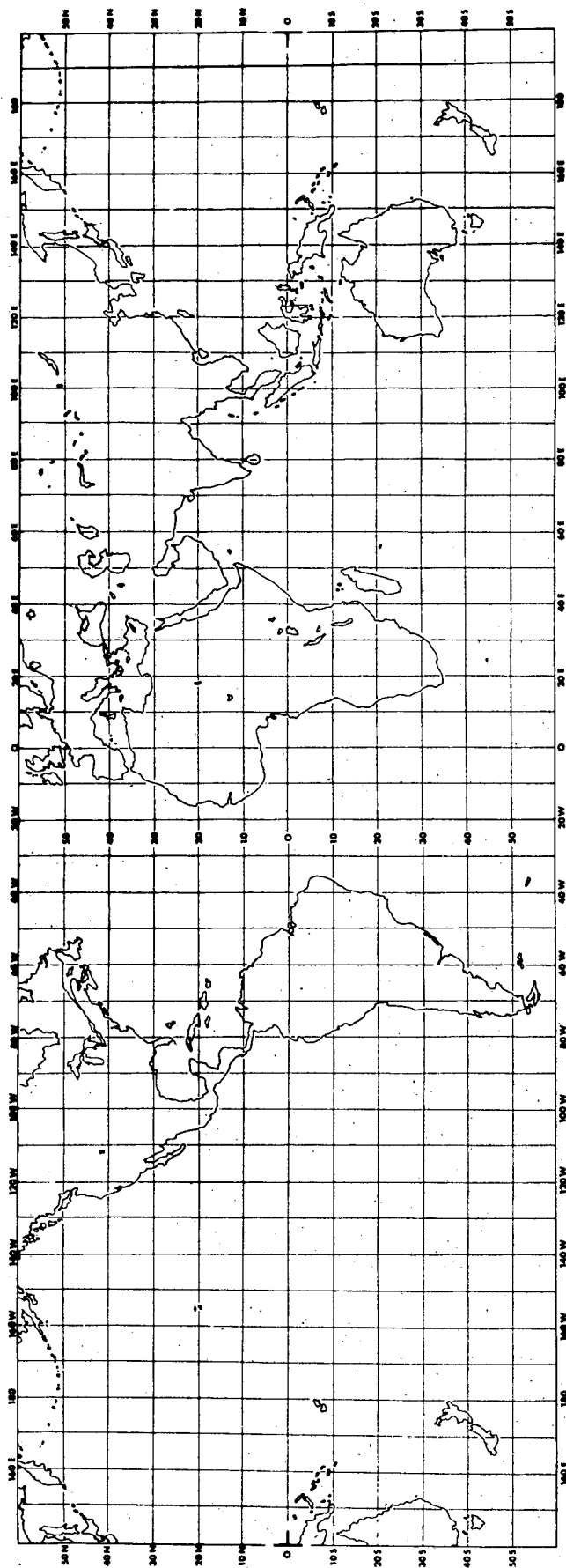
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best available copy.



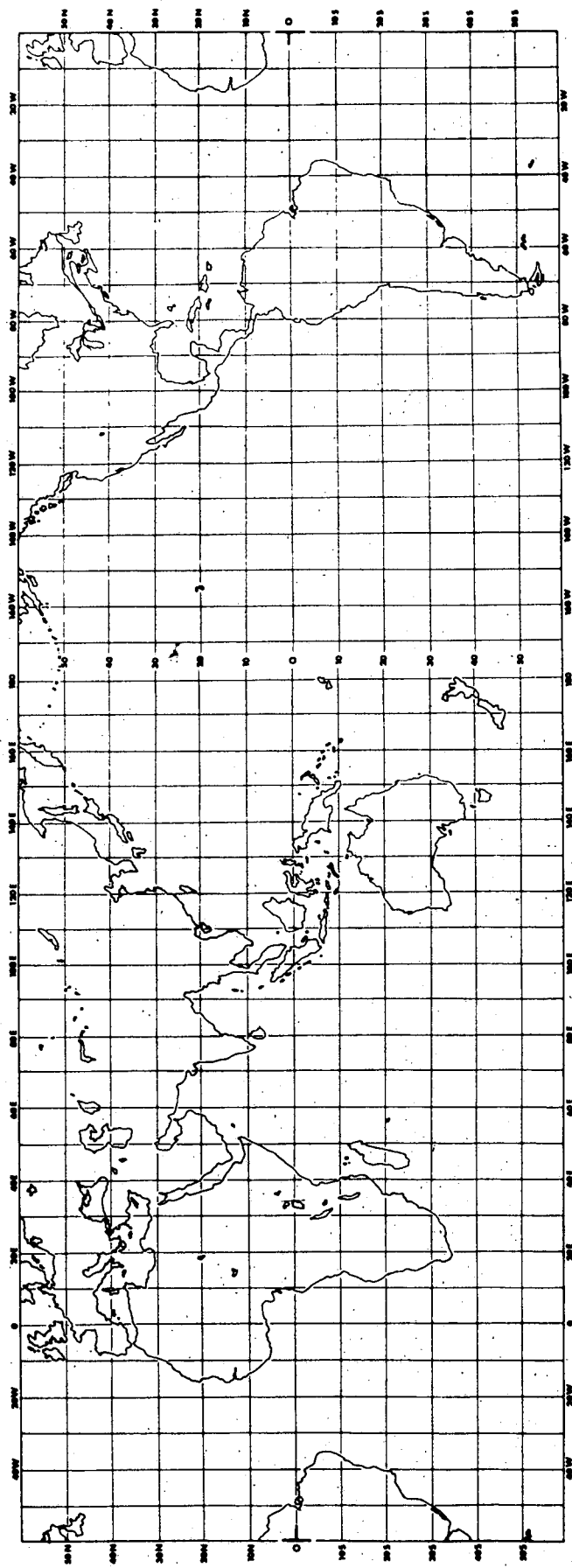


Location Guide  
Average Scale for Nimbus 4  
IDCS Montages

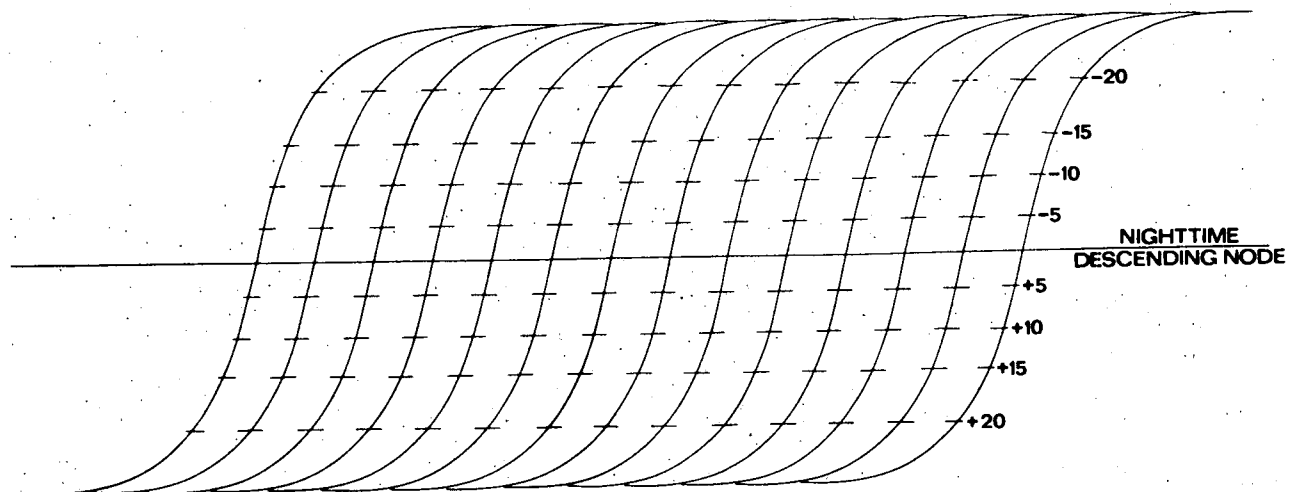




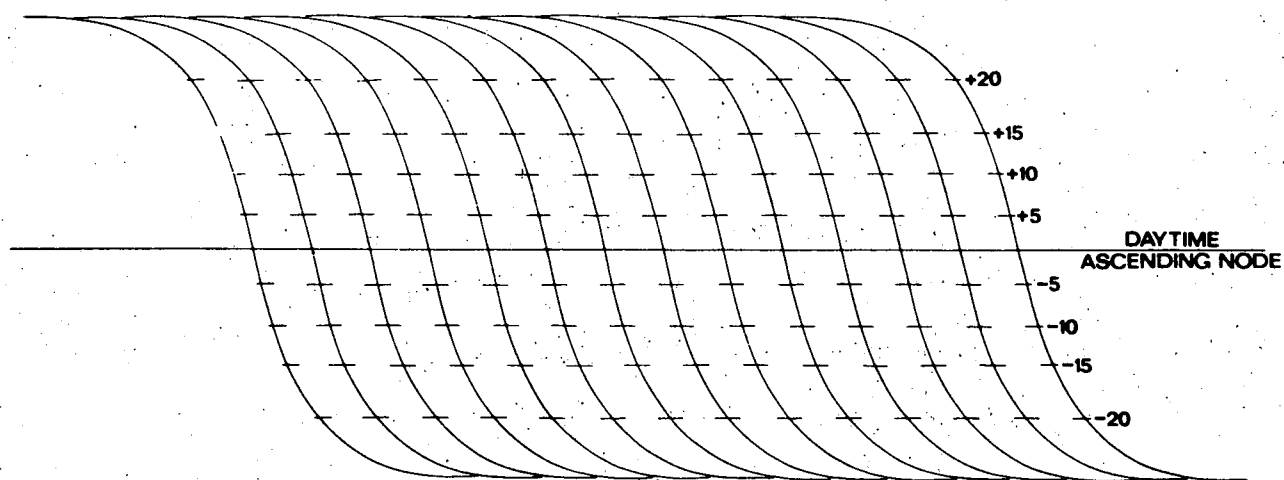
Location Guide  
Average Scale for Nimbus 4  
THIR Daytime Montages



Location Guide  
Average Scale for Nimbus 4  
THIR Nighttime Montages



**NIMBUS 4 SUBSATELLITE TRACKS OVERLAY**



**NIMBUS 4 SUBSATELLITE TRACKS OVERLAY**